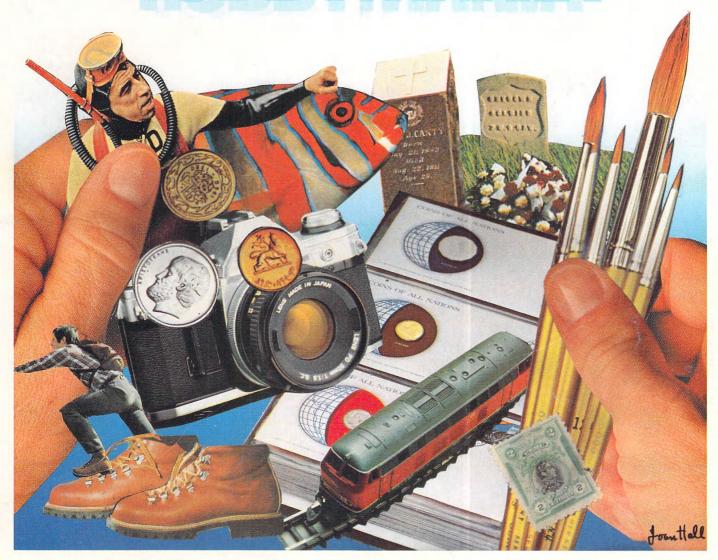
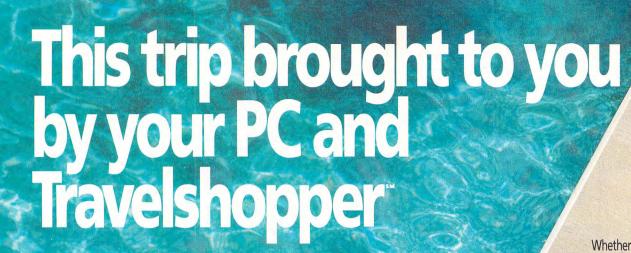
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COPUSERVE

MAGAZINE





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CompuServe®

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Greet the real Hawaii: Cloudless skies and uncrowded beaches. Past the mega-hotel complexes lies a vacation haven filled with gracious yet casual dining and museum-quality art. Bonus: Amateur astronomers say Hawaii is one of two prime sites to watch the 1991 eclipse.

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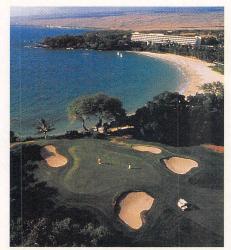
Walker Ecumenical Exchange depends on CompuServe technology to connect advocates of democracy from China, Eastern Europe, South Africa and elsewhere. Bonus: Democracy for China fund.

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40 All Creatures Great and Hairy: Pet lovers congregate, animal behaviorists teach and the Humane Society gets personal. Meet the sysop and Cheeks, the giant cat who serves as forum mascot.



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Mauna Kea turns tourists into native art lovers — page 34

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Too Hot to Print

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 ${\it CompuServe\ Magazine\ (ISSN\ 0891-4672)\ is\ published\ monthly\ in\ the\ United\ States\ of\ America\ by\ CompuServe\ Incorporated, 5000\ Arlington\ Centre\ Blvd., Columbus,\ OH\ 43220.}$



YGI! lets you walk away with prizes. And your dignity.

At one time, you had to appear in front of millions of TV viewers — and lose a lot of pride — to win a few prizes. Not any more. You Guessed It! exposes you to obtuse questions, slightly warped intellects, a plaid-clad game show host, and snazzy gifts. All in the privacy of your own home. Play to accumulate bonus points and redeem them for prizes like sports equipment, timepieces, and telephones. Just type GO YGI. And you're one step closer to walking away a winner.

Dear Reader

hobby can be a fairly solitary kind of activity. Except for the occasional Trini Lopez memorabilia convention or a lawn ornament confab ("Say, I'll trade you a winddriven lumberjack and a life-size plastic deer for a mint condition turquoise chrome ball"), long stretches can pass with little day-to-day contact among people who share a

Some of the relaxation imparted by an avocation stems from its simplicity and solitariness. But there are always those times when hobbies can be enhanced by meaningful contact with fellow stamp collectors, bird watchers, model railroaders, or whatever. Sustained socializing is especially valuable for avocations such as genealogy,

where steady information exchange is crucial to forward progress.

Enter the online service with its message boards, library files and live conferencing areas. Thousands of CompuServers are using a growing number of hobby forums to keep in touch, exchange information, swap goods and, in general, to make the hobby more rewarding for everyone. The communication is ongoing and unobtrusive—you can drop in and out at will. Fellow hobbyists and the information are always there, and you don't have to sweat it by trying to pound the concrete floors of a convention center the size of Uruguay to get everything you need in one or two days.

In this month's cover feature ("Hobby Appassionata," p. 12), CM profiles eight hobby forum administrators who have a deep and abiding interest in their hobbies. A few of them have even crossed the fine line from avocation to vocation and make a living from

the thing they love to do most.

Those of you who frequent a hobby forum will find out more about your sysops, and see what they look like, perhaps for the first time. Regardless of your avocation or forum membership, you will discover more about eight of the world's leading hobbies and how to get started on one (p. 22) if you're among the ranks of the "hobbyless." Who knows? It may be the first step to a new job—one you'll actually like.

You'll notice a change in our hardware/software reviews section this month. The format has been revamped to include synopses of full reviews available in Online Today, CompuServe Magazine's online companion publication. The new format, similar to our book review section, enables us to offer reviews of more products in less space. Two full-text "product of the month" reviews have been retained, and kick off the section beginning on page 42.

At the end of each mini-review on page 44, you'll find a CompuServe GO command that will whisk you directly to the online full-text review if you're interested in capturing more detail. Many software reviews also have GIF graphics sample screens, available in

Library 6 of the Online Today Forum (GO OLTFORUM).

Douglas G. Branstetter

CompuServe® Magazine™, July 1990 Volume 9 Number 7

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Letters

AT&T Online Database

I enjoyed Carole Houze Gerber's article describing free access to AT&T's 800 number directory database (April 1990). However, I think AT&T has ignored businesses in America that subscribe to competitive 800 services.

An AT&T spokesman was quoted in the article as saying, "The online database ... will display every toll-free number authorized for publication by a company." While this may be true for toll-free numbers offered by AT&T, it is not true for toll-free numbers offered by AT&T's competitors. These companies are not listed in AT&T's online directory even though they are listed in the universally accessed database through 1-800-555-1212.

The implication is that any number that can be found through 1-800-555-1212 can also be found online as well. This is not the case and I think AT&T should remedy this shortcoming by offering listings on its online database to its competitors, for a fee. At the very least, AT&T or CompuServe should indicate at the beginning of any session with AT&T's online database that not all 800 numbers are available.

Michael J. Pryslak Vice President, Quotes Plus Inc. Englewood, Colo. **DUAT Availability**

When will the new DUAT weather information system be available? More than a year ago, we were told that the service would be online and so far there's nothing! As a matter of fact, DUAT is now a command that is not in use.

I have told other pilots to watch for this system to appear on CompuServe. Have I made a mistake in judgment on this one?

Jim Pyles Salt Lake City, Utah

Editor's note: Jappensen Aviation, formerly Lockheed Data Plan, was to be the information provider for the DUAT gateway available by way of the CompuServe Information Service. CompuServe was recently informed, however, that Jappensen will not be a DUAT vendor. Therefore, the DUAT gateway will not be available from Compu-Serve.

Book Review Update

SYSLAW: The Sysop's Legal Manual mentioned in CompuServe Magazine (March 1990) is currently out of print. We are coming out with a revised second edition soon, although we do not have a publication date. Please note that the price of the new edition will be \$25.

We appreciate the attention your magazine has given to our publications.

Corinne Trang LLM Press New York, N.Y.

Send a Letter

- OLT-30 Letters to the Editor main menu. Lists all departments.
- OLT-31 Send a letter instructions. Complete instructions on how to send a letter to the editor via the electronic service.
- OLT-32 Read letters from other OLT readers.
 - Send a letter to the editor. You will receive prompts for each step in the process. Important Note: We cannot answer questions regarding the CompuServe Information Service through this service. If you have questions or problems, please use the Feedback service (GO FEED-BACK)



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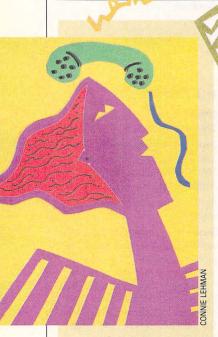
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MONITOR



'Get Me the President'

Forget searching for that elusive little black book and call on Voice Dialer, a telephone that uses speech recognition and speech synthesis technology to simplify communication.

To use the system, recite a stored name into the receiver, and the phone will automatically dial the correct number. Voice Dialer can memorize up to 100 names and numbers.

Other features include the ability to access a series of numbers sequentially to phone a computer service such as CompuServe, a home banking system, or any of a variety of touchtone-compatible information services.

The \$206 unit boasts a security function preventing children or other unauthorized persons from accessing the directory.

For more information, contact Speaking Devices Corp., 1050 East Duane Ave., Sunnyvale, CA 94086. Phone: 408/720-0464. To meet owners of the Dialer and other telephone equipment, visit Section 9, "Telephone Products," in the Consumer Electronics Forum (GO CEFORUM).

MEMBER ESSAY

European Makes Vendor Links

a s a European CompuServe user, I am very excited about the possibility to communicate with the most important American hardware and software vendors by using the CompuServe Information Service.

I'm a product manager for communications products at COMPUTER 2000 (the biggest European distributor in Germany, Austria, Switzerland, Belgium and Spain), located in Vienna. Because of the many host-mainframe environments, there are a lot of different support and configuration programs I have to use.

Often the only way to get

quick help is to access Compu-Serve and post messages in support forums such as Ask3Com and the Novell and Microsoft Forums.

I'm also chairman of the IBM PC User Group in Austria (more than 2,500 members strong) and therefore interested in the various IBM forums. Many of our members gain valuable information from the forums.

There's no problem of access through Radio Schweiz AG, and the service provides great benefits for European users interested in the software industry.

Franz K. Tamegger Vienna, Austria

A Glowing Report

Users of laptop computers are obsessed with fantasies that any day now, someone is going to invent a machine that weighs and costs about as much as a Baby Ruth and runs for a year on a couple of triple-A batteries. Wild speculation about the lurch toward this future dream machine constantly floods message Section 10, "Toshiba Laptops," of the PC Vendor A Forum (GO PCVENA). One recent tongue-in-drive report on the board noted: "Rumors continue to circulate that Toshiba is developing a nuclear-powered 'reactor battery.' However, disposal of the NucPak is causing a problem in the continental United States. Negotiations are under way with the USSR to lease (for 12,000,000 years) certain sites near Chernobyl. ... Stay tuned."

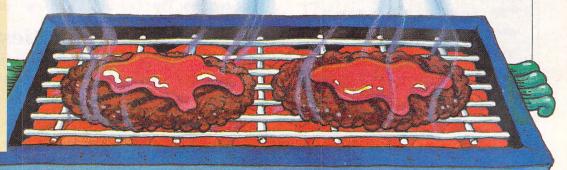
Put Another Shrimp on the Barbie

There are few things nicer on a summer evening than a barbecue. Ribs, chicken or steak have a special aroma and taste when cooked outdoors on a grill. In Cook's Online Forum (GO COOKS) Library 8, "Outdoor Cooking," amateur chefs have uploaded their versions of BBQ heaven.

If you've never made your own, begin with the basic SAUCE.TXT. Another recipe, BRBSAU.TXT, is a "crowd-pleasing condiment with a hint of bourbon."

For a twangier flavor, try BSAUCE.TXT, which adds coffee to the mix.

Among other possibilities are the beer-based BBQSAU.TXT, and a garlicky EZ.TXT. If you fail to see your favorite while browsing the library with the keyword SAUCE, consider uploading and sharing your own recipes.



Online Duffing: It's All in the Wrist

At the CompuServe Country Club (GO GOLF), there is never a wait for a tee time, the temperature and wind conditions are always just right, and you can complete your round within half an hour.

The course is an 18-hole, par 72, championship layout designed to accommodate beginners and challenge pros. As you begin your round, you'll be provided with a bag containing four woods, eight irons, a putter and a wedge. Enter your handicap and most troublesome shot to add a bit of realism.

Before you play each hole, your caddy will give you a description of the hole and its hazards. As on a regular course, often the shortest holes are the most difficult.

The putter officially offers potencies ranging from 1 to 13. An old pro has discovered, however, that a setting of 0 works perfectly on those one-yard tap-ins.

Stamp Out Rising Rates

If you're one of the millions grumbling about the US Postal Service's plans to raise the cost of mailing a one-ounce first-class letter by 5 cents, you can take some satisfaction from the following. Just 15 years ago, you could mail a letter for 13 cents. Compare that to the charge for a transcontinental late-night or weekend phone call, which has dropped from 22 cents a minute to 12 cents a minute.

Naturally, this also makes telecommunications more economical than the US Mail. Comments John Yurko, a forum administrator with the Investors' Forum: "Using CompuServe Mail and my 2400-baud modem, I can transmit a seven-page letter in one minute for around 21 cents and it gets there now, not next week or never." Members can send multiple copies for 10 cents each, or have an automatic acknowledgement generated upon receipt for a quarter, a bargain in comparison to the US Post Office's charge of \$1.75.

Foreign Exchanges

You say you're headed to Paris, but your francais needs a little brushing up before you can parlez-vous with alacrity? Or your company has just opened an office in Japan, and you would like to be able to say more than sayonara?

Check out the Foreign Language Education Forum (GO FLEFO), affectionately called FLEFO by its members.

Jerry Ervin, forum administrator, teaches Russian at the US Air Force Academy and created the forum with Latin teacher Doug Lacey five years ago, thinking it would be helpful to other foreign language educators. But language-lovers everywhere have joined in. Lily Poulin-Gill, a former public school French teacher from Ontario, logged into FLEFO in December 1989, and began fielding questions about French grammar. Now, she and others swap comments and questions (en français) about new French slang, Canadianisms and French culture.

FLEFO libraries also carry programs that will encode/decode Russian transliterations. A similar one for Japanese is in the works and expected soon.

Monitor

Edited by Gayle Brown Contributors: Cathryn Conroy, Lindsy Van Gelder, Susan Katz, Mike Pietruk, Randy Rendfeld



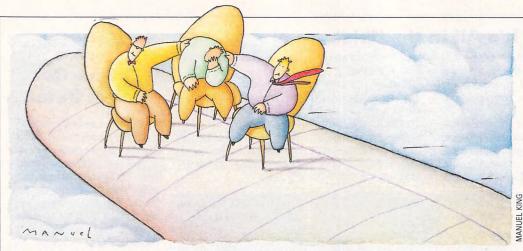
A New 'Green Consumer'

Some audiophiles on CompuServe's Consumer Electronics Forum (GO CEFORUM) call it a psycho-acoustic illusion. Yet others are convinced if you trace the edge of a compact digital disc with a green felt-tip pen, it improves the sound.

When this green pen solution arose in the forum, one user joked the green pen solution is a "lovely contribution to the folklore of consumer audio." But some maintain it makes a difference.

Meanwhile, Clear Image Audio of Bellevue, Wash., has developed a new product called CD Stoplight. The product, which retails for \$14.95, is an applicator with specially formulated water-based green paint that won't harm the discs. CD Stoplight has been licensed to Audio-Prism, which also makes indoor FM antennas and audio cables.

CD Stoplight received the Most Controversial New Product Award from Stereophile magazine. It's likely to be a continuing controversy among CEFORUM audio buffs, too.



They Were the Wind Beneath His Wings

he members of the Aviation Forum (GO AVSIG) have seemed a red-blooded bunch, more likely to be chatting about runway capabilities and the relative reliability of fuel pressure gauges than about human fears, hopes and dreams. But the entire forum transformed itself into a support group of sorts not long ago when an aspiring amateur pilot, discour-

aged by the time and money required to obtain a flying license (not to mention his family's lack of enthusiasm for his hobby), posted a message asking, "Should I continue?"

"Go for it," urged a woman whose husband, parents and inlaws had also been against her decision to learn to fly at the age of 35. A chorus of other members offered similar testi-

monials (one even compared flying to a love affair), as well as practical advice on cutting costs during the training period. All agreed they couldn't imagine life without flyingand assured the aspiring pilot that after his first solo flight, he'd understand why.

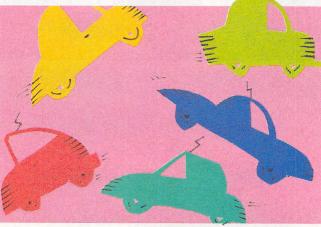
At last report, the new pilot had decided to stick with it.

'Smart Cars' to Smooth Out the Road

f 32 experts in automotive transportation, vehicle electronics, and telecommunications are on target, cars are going to get smarter.

Researchers at the University of Michigan told UPI they believe an intelligent-vehicle highway system will be developed in North America during the next decade.

Their predictions included cars that are equipped to receive updated bulletins from roadside communication centers, and automatic toll collectors that use sound, optical or radio waves to scan identification tags and bill a driver's computerized account. Collisions may be sharply reduced through the use of radar, sonar, laser or infrared devices. And cars could be linked to radio or satellite navigation systems that will register a car's location and provide route guidance by visual or



audio messages.

Of course, these predictions go as far ahead as 2005. One way to monitor changes in the automobile industry is through the "Auto Industry News Brief" section of the New Car Showroom (GO NEWCAR). Here. you'll regularly find reports excerpted from leading trade journals such as Automotive News. Car & Driver, Motor Trend, Road & Track and AAA World.

And lest you think these technologies are purely theoretical, note that the City of Detroit is currently implementing an automatic vehicle location system to dispatch emergency equipment.

Macintosh users: Visit CompuServe at Boston MacWorld Aug. 8-11 in booth 1922.



Bypassing **Toll-Free Trolls**

Toll-free numbers provide a convenient and cost-effective method for businesses to stay in touch with customers. The drawback, however, is they are inaccessible to anyone who happens not to be in the targeted market area.

For those individuals, as well as travelers seeking an alternative to the high international telephone call surcharges imposed by many hotels, Credit Card Calling Services can help. CCCS provides access by bypassing local telephone companies, which typically block tollfree calls as they can collect no revenue on them. For \$4.80 plus \$1.35 a minute, CCCS connects you with any US telephone number, bypassing local telephone operators.

The service is currently available in several countries including the United Kingdom and the United States.

For more information, United Kingdom residents can call CCCS toll-free at 0800-891-800. Others may obtain an information packet and a local access number by calling 212/323-8030 or writing: Suite 2411, 67 Wall Street, New York, NY 10005.

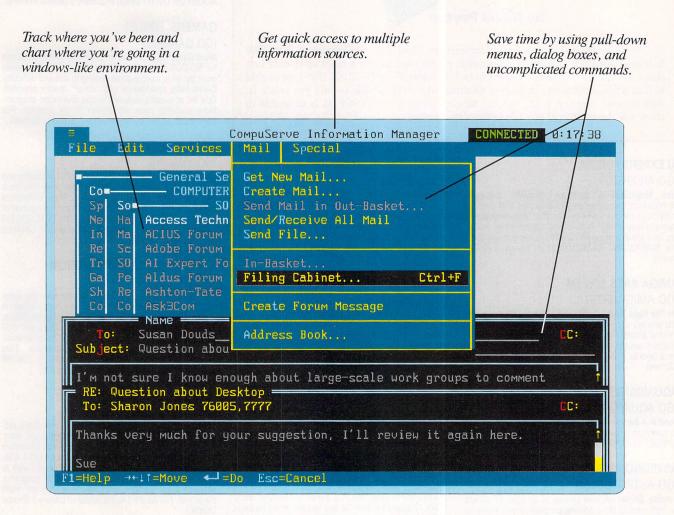
Atari Forums Get File Finder

Atari users searching for downloadable files now can access Atari File Finder (GO ATARIFF) for fast answers.

File Finder is a comprehensive, keyword-searchable database of file descriptions from Atari-related forums. It is designed to provide easy reference to some of the best programs and files available in the Atari Productivity Forum (GO ATARIPRO), Atari ST Arts Forum (GO ATARIARTS) and Atari Vendor Forum (GO ATARIVEN).

Search by topic, file submission date, forum name, file type, file extension, file name or submitter's User ID number.

Easydoes it.



Welcome to the wonderful — and wonderfully easy — new world of CompuServe. It's called the CompuServe Information Manager, and it's a program designed to let you use the power of your MS-DOS personal computer while you take advantage of the resources of CompuServe.

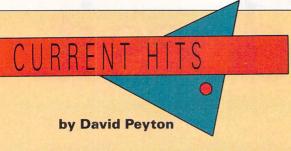
The CompuServe Information Manager is easy to use because it lets you utilize a windowed PC interface with pull-down menus and

dialog boxes. It even allows you to do several tasks (on CompuServe) at the same time.

Plus, we've made it easy to get started, too. The CompuServe Information Manager, and its Users Guide, is being offered to CompuServe members only at an introductory price of \$24.95—and that includes a \$15.00 usage credit. To order, just type GO ORDER at any! prompt.

And you'll learn how the CompuServe Information Manager can put you on easy street.

CompuServe



The libraries on CompuServe's forums are filled with thousands of files. The following are a few of the files uploaded in recent months. For a more up-to-date list, check the weekly "Uploads" columns in Online Today (GO OLT-3700). If you are unable to find a file on this list, the forum administrator may be able to help you locate it. Address your inquiry in the forum's message section to *SYSOP. It is advisable to check the description of any file before downloading.

AI EXPERT FORUM

(GO AIEXPERT)

Free Magazines-A database program containing 25 high-tech magazines in 13 categories that qualified individuals can subscribe to free of charge. Helpful with trying to keep up with high-technology advances, searching for a job or looking for targeted markets for products. File MAGAZI.ARC (34,262 bytes) in Library 8 (Utility

AMIGA ARTS FORUM

(GO AMIGAARTS)

On The Right Track—A train simulation for the Amiga that lets you lay out all the tracks and coordinate two trains moving around the screen. Includes realistic train sounds. Program has the ability to load and save all your favorite track layouts. File TRAIN.LZH (99,285 bytes) in Library 4

AQUARIA/FISH FORUM

(GO AQUAFORUM)

Pond in a Barrel—A file containing an article about how to construct a mini pond in a half whiskey barrel. File KP0005.TXT (3,289 bytes) in Library 9 (Koi/Fish Ponds).

ASTRONOMY FORUM

(GO ASTROFORUM)

Sunrise, Sunset-A new version of an Atari ST sunset/ twilight/sunrise table printing program. Prints yearly table of sunset, civil, nautical, astronomical twilight and sunrise times for any point on the earth. BASIC file included for conversion to MS-DOS. File TWITIM.ARC (35,968 bytes) in Library 7 (Astrocomputing).

AVIATION FORUM

(GO AVSIG)

VOR Identifiers-A listing, compiled from FAA data, of VOR names and identifiers. Sorted alphabetically by name with the identification and state code on the left. Area covered is the continental United States with a few border areas included. File is designed to be an aid to users of EMI flight plans and weather briefings. File NAMES.VOR (33,386 bytes) in Library 2 (Navigation).

BORLAND APPLICATION FORUM

(GO BORAPP)

SideKick Plus Utility-Version 1.91 of Phone-Utility, which provides five functions with the phone book files used with Borland's SideKick Plus. It merges two phone books with the removal of most duplicates. It lists the index, name and phone number fields. It dumps all 24 address fields of a phone book and can change the case of all or selected text fields. Output can be redirected. File PH-UTL.ZIP (14,464 bytes) in Library 2 (SideKick Plus).

COIN/STAMP FORUM

(GO STAMPS)

Stamp Organizer-A database for MS-DOS machines from Homecraft for organizing a stamp collection. Provides up to 21 fields, freeform notes, 10 million entry capacity and allows stamps to be entered in any order and edited at any time. Menu operated, Indexing provides fast search capabilities and lets the user alphabetize the collection. Includes a set of utilities to customize fields, copy entries, reserve disk space and more. File STAMPC.ZIP (141,184 bytes) in Library 3 (Foreign Stamps).

COMMODORE ART/GAMES FORUM

(GO CBMART)

Space Game-Starfighter 128, a public-domain game for the C-128 with a space theme, written by Jerry W. Whitfield. Requires an 80-column monitor but color is not required. When run, it will dissolve into a 111 block file on your disk. At the main menu, select "Galaxy Data" for hints on how to play. File STARFI.BIN (21,888 bytes) in Library 9 (Adventure Games).

COMPUTER CLUB FORUM

(GO CLUB)

Actrix Utilities—An LBR file with eight crunched utility programs for the Actrix computer. Includes NSWEEP, Sleep, CLRSCR, QK21, QK24, PATCH, SCAN12 and SD127. Sleep turns off the computer and sets it to turn on at a predetermined time. PATCH is a disk nibbler type utility. SCAN 12 allows for both file and text/hex string searches. CLRSCR clears the monitor. QK21 is a key redefinition program. File AXUTIL.LBR (43,648 bytes) in Library 5 (-AX-[Actrix]).

CONSUMER ELECTRONIC FORUM

(GO CEFORUM)

CD Cataloger—CD Master, a shareware library catalog program for CDs for MS-DOS compatible machines. Aimed more at classical collections than pop. You can enter the disc title, label and catalog number, up to four works, and notes about soloists or conductor. File CD140.ZIP (84,579 bytes) in Library 5 (Audio Software).

EDUCATION FORUM

(GO EDFORUM)

Advanced Math Tutor—A quadratic equation tutor, about 300K, that's part of a 1.6MB five-year algebra course that includes everything from counting numbers to imaginary numbers. The course combines programmed learning with artificial intelligence. The student receives guidance from an electronic tutor through 17 detailed algebraic topics. Registration required for full program. File MATH1.EXE (115,712 bytes) in Library 2 (Software).

EPSON FORUM

(GO EPSON)

Printer Utility-AUTOLABL!, a general purpose utility for Epson dot matrix printers used for making, storing and printing of lists and labels. Use for mailing lists Rolodextype cards, custom disk labels. Full search and recall, editing and viewing of lists. Will handle labels up to three across, three inches wide and five inches long. File ALABL1.ZIP (77,177 bytes) in Library 5 (Matrix Printers).

GAMERS' FORUM

(GO GAMERS)

Word Game-Cipher, a new game from Nels Anderson for MS-DOS-compatible computers in which the player must decipher word puzzles varying in size and difficulty. Online help, save/restore and "cheat" modes provided. One set of puzzles included in this shareware program. More available upon registration of the program. File CIPH10.ZIP (60,576 bytes) in Library 13 (Other Games).

IBM APPLICATIONS FORUM

(GO IBMAPP)

Lean and Mean—PC Write Lite version 1.01, a smaller and faster version of PC-WRITE. It contains only the most popular features of the original product. Major differences include the addition of a print preview and the removal of support for proportional fonts. Files PCWL1.EXE (216,713 bytes) and PCWL2.EXE (141,106 bytes) both in Library 2 (Word Processing [A]).

IBM COMMUNICATIONS FORUM

(GO IBMCOM)

Automatic BBS-Version 2.0 of Robocomm, the automatic BBS communication system. Fully supports ProDoor, Qmail 2.3 and 3.0, MarkMail, ProLogon, DDoor, PCBoard 14.5, TextView and MegaMail. Does net mail transfers through PCRelay, NetMail and Qmail systems. Integrated file catalog program. Shareware. Files ROB20A.ZIP (174,185 bytes) and ROB20B.ZIP (126,166 bytes) both in Library 3 (Comm Programs [C]).

IBM HARDWARE FORUM

(GO IBMHW)

Universal Printer Utility—Adaptastyle Printer setup program. Customize for any printer or any codes you want. Especially good for printing public-domain or shareware program manuals. Works with any printer on LPT1. Customize the menu for any number of options you wish to send to your printer. Works with most other programs, although it will not work when the other program resets the printer. File AS.ZIP (16,512 bytes) in Library 2 (Printer

PC MAGNET UTILFORUM/TIPS FORUM

(GO PCM:UTILFORUM)

Wide Area Networking—Backmail!, a small (35K) TSR program that provides wide area networking. Full featured electronic mail, including bulk mailing, forwarding, replies, date stamping, and file transfers in the background. Reviewed in *PC Magazine* No. 6, 1990. File BMAIL.ARC (161,024 bytes) in Library 5 (Connectivity Clinic), Costs \$30.

TRAVEL FORUM

(GO TRAVSIG)

Water Safety—Health tips from Travellers' Health: How to Stay Healthy Abroad by Dr. Richard Dawood (published in 1989) with comments by forum members. The file focuses on giardiasis, water and the traveller, and water treatment. You'll find the file WATER.TXT (6,026 bytes) in Library 0 (General Interest).

David Peyton co-authored How to Get the Most Out of CompuServe, now in its fourth edition. His CompuServe User ID number is 76703,244.

AQUARIA/FISH FORUM

(GO AQUAFORUM)

Your First Aquarium-An article from California Aquaculture on setting up your first aquarium. Contains comments on nearly every aspect of setting up an aquarium from a beginner's perspective. File BL0022.TXT (16,430 bytes) in Library 1 (Beginner's Library).

ASTRONOMY FORUM

(GO ASTROFORUM)

Moon Information—This MS-DOS program calculates RA, DEC, rise and set times and moon phases. A solar system simulator will show the planets in motion around the sun for systems that have an EGA graphics board and monitor. File ASTRO3.ARC (87,808 bytes) in Library 7 (Astrocomputing).

ATARI ARTS FORUM

(GO ATARIARTS)

Arcade Game for the ST-An arcade game for the ST in the Pac-Man tradition. Animation, color and joystick implementation and increasing difficulty. File HACKMA.ARC (44,290 bytes) in Library 2 (Games).

Breakout Game-BOLO, a Breakout-type game from Germany. Will run on color or mono monitors. You can even change types of monitors in the middle of the game. The game has 50 levels of play, and instructions in either English or German. The files must be in the main directory of A: for the game to work. Otherwise you'll just see a blank screen. File BOLO.ARC (142578 bytes) in Library 2 (Games)

BORLAND APPLICATION FORUM

(GO BORAPP)

Answers to Sidekick Plus Questions-A text file containing a compiled list of common questions and answers for SideKick Plus. File QNASKP (5,907 bytes) in Library 2 (SideKick Plus).

COMMODORE ART/GAMES FORUM (GO CBMART)

Monster Adventure Game—A text adventure game for the Commodore 64 that makes you deal with the Monster "Twonky" on the Planet "Twinky." You are placed in a "maze" and must get free before "Twonky" gets you! This game includes a "digitized voice" as you play the game. Instructions are included with the game. This is an SDA (Self-dissolving) file. File TWONKY.BIN (32000 bytes) in Library 9 (Adventure Games).

GENEALOGY FORUM

(GO ROOTS)

HyperCard Genealogy Program—An interactive genealogy program designed for efficiency and ease of use. Uses Macintosh HyperCard's linking ability to the fullest. Make tree charts and then link them to "Personal Data" cards. Instructions and help included. Allows easy access to all relatives and "quick links." Download with a proto-col and unpack with Stuffit. Shareware by Kevin Mennitt. File GENEAL.SIT (46,336 bytes) in Library 4 (Apple Soft-

HYPERTEXT FORUM

(GO MACHYPER)

Document Database—This stack assigns document numbers (by category) and keeps track of the physical location of documents in a file cabinet. Will work with any kind of document. Allows entry of title, author, date, abstract (comments). Can view full document info or scrollable list of all categories or documents in a category. Generates lists of documents containing combinations of selected keywords and prints bibliographies of these lists. File HFILE3.SIT (49,664 bytes) in Library 3 (Education).

IBM NEW USERS FORUM

(GO IBMNEW)

Snake Game with Some Twists-Slither 1.1 a fast-paced action game written in true EGA mode-640 by 350. Based on the old snake game, but with a few twists. EGA/VGA required, AT or better recommended. User supported. File SLITHE.ARC (43,776 bytes) in Library 6 (Gen Fun and

PC MAGNET UTILFORUM/TIPS FORUM

(GO PCM:UTILFORUM)

Byte Reporter—Modified version of Art Merrill's FREE.COM is compatible with partitions 32 MB under Compaq DOS 3.31, MS/PC-DOS 4.0+. Reports the number of unallocated bytes on a floppy or hard disk. Includes ASM source. Upl: John Jurewicz 76004,2311. File FREE4.ARC (1700 bytes)— in Library 2 (Utilities).

by David Peyton

Following is a list of files uploaded to CompuServe forums more than a year ago that have won the right to be called "oldies but goodies," either by the recommendation of forum administrators or by the number of downloads each file has received. Libraries are constantly being reorganized. If you cannot find one of these files, send a message to *SYSOP.

IBM SYSTEM/UTILITIES FORUM

(GO IBMSYS)

DOS Utilities-A collection of DOS utilities, written in assembler and all very fast. Includes an ASCII text editor, binary memory and disk sector editor, RAM disk, RAM resident utilities. File DOSUTI.ARC (73,645 bytes) in Library 3 (General Utils [S]).

MACINTOSH PRODUCTIVITY FORUM

(GO MACPRO)

Watch Replacement—Replace the watch in Finder with a new salt timer for a change from the ordinary. File DONCUR.SIT (4,224 bytes) in Library 7 (Utilities).

MICROSOFT APPLICATIONS FORUM

(GO MSAPP)

ZIP For Windows—Windows based front-end for processing files compressed with the ZIP compression method. Requires PK092.EXE to use. This is a public-domain program known as "The Zipper." File WINZIP.ZIP (22,784 bytes) in Library 2 (Windows Apps).

NAIC FORUM

(GO NAIC)

Stock Selection Guide-A file for the Macintosh that contains a Macintosh Excel(v1.04) worksheet and Macro, which prepares the NAIC Stock Selection Guide and Graph from Value Line data. A MacWrite 4.5 Document with notes on operation. This version requires Stuffit, Excel and MacWrite. By Richard Clemens. File XGUIDE.SIT (16128 bytes) in Library 8 (Computer Investing).

PHOTOGRAPHY FORUM

(GO PHOTOFORUM)

On-Screen Timer—A program for IBM PCs and compatibles that emulates a standard darkroom timer on the screen with an analog graphics face. Graphics adapter required. No charge for non-commercial use. File TIMER.EXE (54,272 bytes) in Library 16 (Computer Software).

SCIENCE/MATH FORUM

(GO SCIENCE)

Random Number Generator—RGEN.ARC contains RGEN.EXE a random number and date generator for IBM PCs and compatibles as well as an associated document RGEN.DOC. RGEN will run on any true IBM-compatible. The program uses 32-bit methods to calculate the random base. Detailed documentation is available for interested users. File RGEN.ARC (36,224 bytes) in Library 8 (Tandy/IBM Science).

TANDY PROFESSIONAL FORUM

(GO TRS80PRO)

Here's Looking At You—A program for MS-DOS systems that puts a "big eye" on the screen that blinks and surveys the room while you're away. CGA required. File BIGEYE.ARC (21,248 bytes) in Library 6 (MS-DOS Appli-

WORDSTAR FORUM

(GO WORDSTAR)

Memory Revealed—ASCII text file provides a brief discussion of the differences between expanded and extended memory on 80286 and 80386 systems with reference to expanding system memory in general and WordStar and WSEX in particular. Copyright 1989 by Gary M. Gibson, uploaded by the author. File MEMORY.TXT (5,839 bytes) in Library 1 (General).

Hobby Imassimata

Meet eight hobbyist forum sysops who live, breathe and share their avocations through CompuServe.

George Laun dreams of tracing his roots to Adam, but he hopes he never gets to Eden. His 20-year search, including recent time spent in the Genealogy Forum, has been too satisfying to end. "It's like detective work," he says. "It links me with the eternities."

TrainNet enthusiast Peter Zisson dreams of someday recreating a chunk of Virginia in his basement. But not today. Today he's deep in research. "There's a total lack of urgency to model railroading," he says. "Starting my layout of the Virginia and East Ten-

layout of the Virginia and East Tennessee Railroad is still years away. No rush. This is a hobby for life."

Dave Cunningham, Coin/Stamp Forum sysop and collector of all things old and odd, sees no end to his quest for the biggest, rarest, most perfectly preserved whatever in the world. "There isn't any cap," he assures anyone who asks. "Something out there will always be stranger or have a nicer story attached to it."

Hobbies are like that. Openended. They begin as pastimes and they expand to passions. First, they're a pleasant P.S. to a long day of work, and then they evolve into a permanent detour out of the fast lane.

"A good hobby can be so mentally involving that it serves as an escape, if only for a few hours," says Bob Andrews, owner of Cougar Mountain Hobby Products. "Even when a catastrophic problem confronts a modeler, it's seen as a challenge. If it's too great of a problem, he can walk away from it, which is something he can't do with his job without making the situation worse."

Sometimes a hobby can give direction in a round-about sort of way. "Since I don't know where I'm going, it seems appropriate to learn where I came from," quips genealogy buff Eleanor Lyon Duke.

Or it can be a return "home" after a long hiatus. "People who dropped out of modeling

in the '60s and '70s as teens are now returning in droves," says Patrick Miller, president of the National Association of Rocketry. "Our hobby has a bi-modal age distribution with a peak at 13 years and another peak in the 20s. We're noticing a definite shift toward adults."

If a hobby can keep a person in touch with his youth, it also can link him to his origin.

"I live in land-locked Colorado and I'm half Hawaiian," says FishNet member Kiam Cua. "My aquarium brings me a bit closer to the ocean. When I get home from work, the pressures of the day are washed away by looking into these beautiful ocean windows."

The variety is infinite. According to the *Encyclopedia of Associations*, hobbies range from the eclectic—National Toothpick Holder Society—to the bizarre—American Association of Aardvark Aficionados. Some are related to others in name only. For instance, the Potato Eaters of Washington, D.C., share an interest in growing, cooking and eating potatoes, but shouldn't be confused with the TV-addicted Couch Potatoes of Dixon, Calif. The Couch Potatoes, by the way, plan to expand their ranks with an offshoot youth program called Tater Tots.

But no matter the variety, time (or food) consumed, money or space required, one thing all dedicated hobbyists have in common is that their building of airplanes, searching for relatives, collecting of stamps, or nurturing of koi are not just passing phases that dry up with the old glue tube. They are a way of life

They are a way of life.

In the following pages you'll meet a few people who live this philosophy. They are forum administrators who share their expertise and enthusiasm online: Dave Cunningham, Joe Reynolds, John Benn, Mike Wilmer, Doug Pratt, Dorr Altizer, Rick Drew and Dick Eastman. Read on, then log on, and feel the passion.

Holly G. Miller is a free-lance writer and college professor from Anderson, Ind. Her most recent book is How To Earn More Than Pennies For Your Thoughts: A Writer's Guidebook. Her CommuServe User ID number is 70007.2345.

FEATURE

CM's Cover Story:

Driven to Distraction

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Coins & Stamps

Dave Cunningham, 43

Profession

Computer consultant, Cunningham Industries; stamp and coin store owner; Justice of the Peace

Passion

Universal Postal Union collectibles
GO COINS or GO STAMPS



Dave Cunningham likes to think of his stamp and coin store as a "veritable jumble house of any collectible known to man, including stamps, coins, baseball cards, post-cards and what you will." His most recent "what-you-will" acquisition is a massive portrait of an unknown governor-general of the

"The reason I bought it is because the governor-general in the painting is wearing the Victoria Cross," explains Cunningham. "Anyone who collects badges and medals knows the Victoria Cross is not available at any price. I decided the next best thing to owning the Cross is owning a portrait of someone wearing the Cross."

He prefers collectibles with stories attached, and he has colorful yarns for most of the treasures in his Connecticut jumble house.

"There have been wars fought over stamps," he begins. "From time to time, a South American country has issued map stamps that show the country slightly larger than it really is. The neighbors usually object."

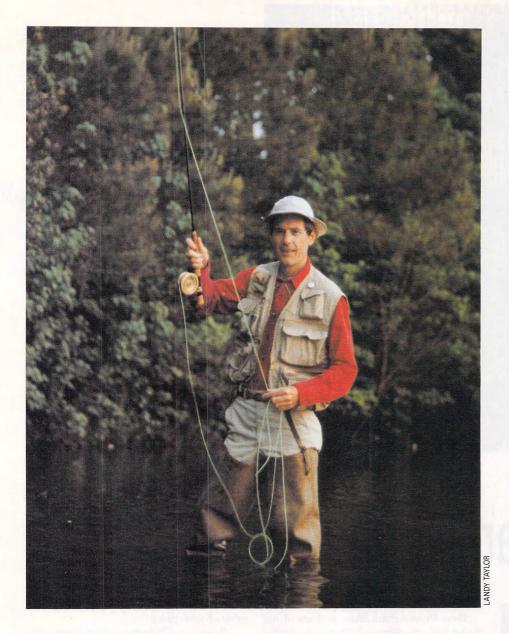
Idiosyncracies sometimes drive up the

value of collectibles.

"When the Philippines were under the control of the United States in the 1940s, their stamps were printed in the States," says Cunningham. "One stamp was supposed to show a famous Filipino waterfall. The trouble was that the engraver couldn't find a good photo. So, he cheated and used a picture of a waterfall in Yosemite thinking no one would know the difference. They did."

He also tells tales on himself—such as the time he attended a Nixon rally in 1969 wearing a little lapel button he had picked up at a flea market. He knew something was wrong when a group of the president's aides started pointing at him and whispering into their walkie-talkies. Later he learned that the button on his jacket was the same as the color-coded identification badges worn by the Secret Service that day. No one knew if he was part of the security detail or was posing as an agent.

"It was a weird feeling," he admits. "But I was able to get within eight feet of the president before anyone figured out who I was ... or who I wasn't."





Outdoors

Joe Reynolds, 51

Profession

Northeast Regional Editor, Field & Stream

Passion

Fishing, hunting, outdoor photography

GO OUTDOORS

Joe Reynolds describes himself as a catchand-release kind of angler. The only fish that die as a result of his sport are the ones that pose too long for photos. Even the beauties mounted on the walls of his Ocean City, Md., home are plastic stand-ins for the real thing.

"People don't realize it, but mounting actual fish is rare these days," explains Reynolds. "All you have to do is measure your catch and then throw it back in the water. If I land a fish in Maryland and want to have it mounted in Florida, I just send the dimensions south."

Reynolds' occupation as a writer and his preoccupation as an outdoorsman often result in long days and even longer nights. The hunting and fishing are done in the wee hours of the morning, and the articles take shape after midnight. Then there's the dilemma of being out in the field and wondering if he's on assignment or on his own time.

"I always feel I should be working, and by that I mean taking pictures," says Reynolds. "Editors usually want word-picture packages, so while others enjoy the sport, I've got my camera out shooting photos."

He's fished in Chile, Mexico, Labrador, Manitoba and New Brunswick. But the most frightening adventure came practically in his own backyard on the Susquehanna River. He was floating in a one-man rubber raft when the water flow was shut off at the nearby dam and he was left to churn in the draining pool and to bump against the jagged rocks.

"I worked my way four miles downstream," he recalls. "About 2 a.m., all wet and shivering, I dragged my raft up the bank to where some campers were stirring. I heard a little boy yell, 'What's that? There's something coming from the river. Dad, get your gun! I lay on the ground, huddled under the raft, the rest of the night."

Most days aren't nearly as harrowing.

"People see this line of work as exciting," says Reynolds. "But a job is a job, and I spend a lot more time in front of a keyboard writing and researching stories about fishing than I spend traveling and actually fishing."

Aquaria and Fish

John Benn, 37

Profession

Insurance defense attorney,

Slusher & Benn

Passion

Tropical fish breeding

GO FISHNET

Because of their shared hobby, John and Jan Benn rarely break away for family vacations longer than a weekend. They're tethered to their tanks and the 5,000 bettas that populate their full-scale home hatchery in Sheffield, Ala. Even with the help of a parttime aquarium aide, the Benns estimate that they spend about 25 percent of their time at home working in their expansive "fish room."

"Vacation? Usually Jan goes or I go, but the other has to stay here and take care of the fish," says John.

More often both Benns are home, and the fish travel solo to follow the sun from coast to coast. The exhibition and show season spans from March to November, and this year the Benns will send their best bettas as far away as Los Angeles to the west and Washington, D.C., to the east. Of course the fish always go first class, generally by priority mail.

"This species gets most of its oxygen by

gulping air off the surface of the water," explains John. "We put them in plastic bags with enough water to keep them covered and with a pocket of air on top. We twirl and tie the bag, seal it in a styrofoam box and take it to the post office. We never send fish out in cold weather."

With his radio blaring in the background, Benn enjoys the predictability of routine aquarium maintenance work. Puttering around the tanks is a welcome about-face from the demands of his law practice. Relaxation is the attraction, and he says the hobby holds the same fascination today as it did nearly 20 years ago when, on a whim, he bought two Siamese Fighting Fish at a mall aquarium show. The original two became four, and the four became eight, and the eight became....

"I'm still getting deeper and deeper into it," he says. "That's typical of this hobby. Not long ago a new forum member stumbled into FishNet and announced on the message board that he had just bought another tank—his third. 'Look out,' we warned him, 'that's the sign that you're hooked. Before long, you'll be up to 40 or more. Just look at us.' "





Out of Chi

Photography

As a portrait photographer, Mike Wilmer spends five months a year tracking the rich and famous. He shoots his subjects on location on *their* turf, on *their* time and at *their* whim. Sixteen-hour days aren't unusual, and he once photographed an East Coast pizza magnate's family at 7:15 a.m. to accommodate everyone's jammed schedules.

"As long as my subjects can open their eyes and look at the camera, it's never too early," says Wilmer. "I've done sessions as short as 10 minutes and as long as 5 1/2 hours. The longest was with a young couple, their 16-month-old daughter and three parrots. They wanted lots of shots taken on their deck in Fort Lauderdale, but the woman didn't like the sun. So, they had two dozen fully-grown coconut palms trucked in to provide shade."

Although some of his portraits are formal and hang in boardrooms, his specialty is capturing the casual sides of VIPs. These pictures generally occupy prime spots over fireplaces at posh family compounds.

"I might do a chairman of the board, but I'll photograph him at home rather than at the office," explains Wilmer. "It will be his wife's idea, and she'll give the orders while he runs around saying, 'Yes, dear; yes, dear.'"

Wilmer doffs his professional hat when he's at home in California, but a camera still hangs from his shoulder. He works on different levels—portrait photography for a living, wedding pictures for enjoyment and snapshots for fun.

"For family stuff, I use a point-and-shoot camera with auto focus, auto exposure and auto everything. I'm not concerned about turning out perfect pictures, and I don't go through all sorts of gyrations to set up a single shot."

He's aware that whenever a job spills over to the off-hours, burnout is a threat.

"There's a point when you have to step back and try a new hobby," he says. "That's how I got into computers. Then I stumbled into CompuServe and someone suggested that I should start a photography forum. Now when I travel, I can work on forum business at night."

If that sounds suspiciously like a photography-related hobby, his retirement dream isn't much different. Picture this:

"A photo gallery," he says. "Someday I might like to have a gallery where people can come and see examples of my work."

Mike Wilmer, 40

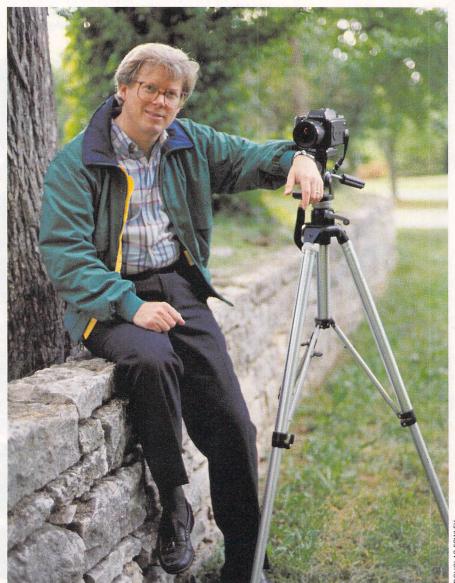
Profession

Free-lance photographer

Passion

Photography
GO PHOTOFORUM





DOUGLAS FOWLEY

Model Aviation



Doug Pratt, 38

Profession

Director of Internal Communications,
Academy of Model Aeronautics

Passion

Anything that flies GO MODELNET

"I wasn't a very outdoorsy kid," says Doug Pratt diplomatically. Then he laughs. "OK, OK, I was your basic nerd—pocket protectors, 19 pens, the whole bit. But I was always fascinated with flight. I remember when I was little I watched Alan Shepard, Gus Grissom and John Glenn make their flights. I was always excited about the space program."

His first model airplane was the result of a kit he ordered from an ad in the back of *Popular Science* magazine. Thirty years later, he's still gluing together pieces of balsa wood, but now he's graduated to more sophisticated projects. His most recent, a Short Sky Van, resembles a huge box with a rounded nose, twin tails and two wings that look like afterthoughts. It took him three years to complete.

"It's a big, funny-looking airplane," he

says. "I felt an immediate sense of personal identification with it."

When he writes a book on his hobby—he has just finished his eighth—he builds several models to serve as illustrations for his words. His most recent, *Learning to Fly RC with Electric Power*, required 22 airplane models.

"My wife and I have worked out a compromise," he explains. "Jenny says I can do anything I please in the basement, but the rest of the house is hers."

In recent months, he has recruited a helper, Brian Pratt, nearly two years old. Doug debated whether to make the basement workshop off limits to the toddler or to take a chance and let him join in the fun.

"He's growing into it," says Doug. "When he was a year old, I gave him an old airplane to beat to pieces. It took him about a month."

Pratt's patience, evident offline as he eases Brian into the family hobby, also is intact online as he answers questions from beginners. His specialty is deciphering the sometimes mystifying instructions that are included in model kits.

"I once heard about a guy who called his local hobby store three days after he bought an airplane kit. He was trying to understand the instructions that recommended putting more dihedral in the wings. The looked everywhere in the box but I can't find any dihedral, said the guy. Where can I order some? He didn't realize that dihedral is an angle—the upward sweep of the wing. He wanted to buy a bag of dihedral."

Model Trains

Dorr Altizer, 43

Profession

Master Sergeant, USAF

Passion

Model railroading
GO TRAINNET

The only movement Dorr Altizer recalls seeing against the stark landscape of Michigan's Upper Peninsula is a black train. That was 23 years ago, he was a new Air Force recruit, and his first tour of duty was in snowy Sault Ste. Marie.

"By the time I was transferred, I was a railroad freak," says Altizer, now an officer stationed in Arizona. The backdrop may have changed, but his fascination with trains is intact.

His collection—all 500 cars and 100 engines—costs him about \$5,000 a year to maintain and fills a sprawling annex specially built to accommodate the hobby. He estimates that 60 percent of his free time is

spent tinkering with his January National Railways, the 1800s-vintage train system that could have existed but didn't. This includes writing an imaginary history of the railway that never was.

"I get off on tangents," he explains. "I decided I wanted to put a gold mine on my railroad, so I spent a year and a half researching gold mines in Arizona."

Altizer's wife, Janet, signed on with the January National Railways as a scenery painter, then borrowed the initials JNR to launch a subsidiary. She now sells needlework kits with railroad themes to hobby shops across the country. The couple has transported the trappings of their hobby from state to state and once to Kenya and back. The diversion it provides more than makes up for the hassle of packing and shipping a railroad every few years.

"All day I work in a very precise atmosphere with a lot of valuable equipment," says Altizer. "When I go home I want to forget all that. If I make a mistake with my model railroad, big deal, I can throw it in the trash and start over."

In another 10 years, he plans to do just that—throw it in the trash and start over. January National Railways is scheduled for completion by the year 2000, and its creator will be ready for a new challenge. But how could he tear down a project that took him so long to build?

"With a sledge hammer and a saw," he says. "It's rare to find a model railroader who has been in the hobby for more than a decade and has had only one railroad. You outgrow it and move on."







Scuba Diving

Rick Drew, 30



Desktop publisher

Passion

Scuba diving GO DIVING

If you were in a scrap yard, you probably wouldn't look twice at the wreck, says Rick Drew, describing the rusted remains of a ship on the bottom of Lake Michigan. He's visited the site 50 times because he always discovers something he missed on previous dives.

"Remember, a diver looks at a wreck through a mask that restricts his vision like blinders on a horse," says Drew. "A brown mist is all around, and he has only about five feet of visibility ahead. It's almost like entering a three-dimensional maze."

He credits Jacques Cousteau's TV specials with hooking him on the hobby back when he barely was a teen-ager. A family firmed his fascination, and today he is a master instructor and equipment expert, and has had dozens of articles published about-what else?-scuba diving. But the scuba hobby encompasses a range of specialties, and Drew has his priorities.

"My favorite is wreck diving," he says. "My dream is to dive at Truk Lagoon in the Pacific. It's a natural series of volcanic islands where the Americans had their revenge for Pearl Harbor. Our military sank most of the Japanese navy in two days and two nights of constant bombing.'

Next to wreck diving he likes the excitement of using a pickax to chop out a triangle

in ice and lower himself into 34-degree water. "It's brisk," he admits. "Of course, you have on a lot of gear. When I ice dive, I don't even get wet because I wear a full dry suit and face mask. I look like something out of a grade-B science fiction movie by the time I come out of the water."

Since he lives in Chicago, his diving season is curtailed by weather and the shortage of choice diving sites. He estimates at least 200 shipwrecks are within an hour's boat ride of the city's Loop, but conditions are muddy in the summer and dangerous in the winter. To keep in shape in the off-season, he snorkles in a pool where he offers lessons to students as young as 12 and as old as 68. But even when he's out of the water he's not out

"Professionally, I publish a series of clipart disks for desktop publishing," he says. The subject? "Marine life, coral reefs, divers, underwater photography. You name it.'





Dick Eastman, 44

Profession

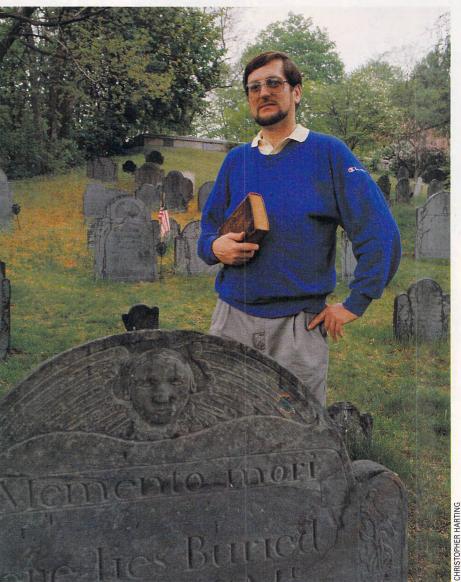
Manager, Knowledge-based Services, Bull Worldwide Information Systems

Passion

History, genealogy
GO ROOTS

Dick Eastman had to go back 300 years before he found a bona fide skeleton in his family's closet. But it was worth the search. Until then, he had encountered about 3,000 Mr. Nice Guys.

"I have copies of his handwriting," says



Eastman. "He lived with the Indians in New Hampshire and acted as an interpreter when the government negotiated treaties with the chiefs. He couldn't get along with anyone; he got in legal battles with all his neighbors, and was so obnoxious that his family finally abandoned him. He died in jail."

Indirectly, Chris Eastman, Dick Eastman's 11-year-old son, is the reason he became interested in tracing the family's roots about 10 years ago. Because Chris is the only male greatgrandson to carry on the Eastman name, he was to inherit the family Bible.

"I didn't know we even had a family Bible until my aunt passed it on to me one day in a paper bag," recalls Eastman. "I opened it and saw that it had been printed in 1828 and must have been given to my great-great-grandmother when she was a girl. The first thing she had done was record all the marriages, births and deaths that she could remember. The dates went back to the 1750s, all written with a quill pen. I flipped out."

Living in Massachusetts has helped him in his research since most of his ancestors grew up and died within 40 miles of his home. He has traced one relative to the late 1400s and several into the early 1600s. Searching for his wife's roots has been more difficult.

"Janet's family sided with the king during the Revolutionary War," he explains. "When the Royalists lost the war, the crown offered them land in Nova Scotia and New Brunswick. One of our projects when we retire will be to go to Canada and spend some time in the library."

Probing the past has become an openended preoccupation with no end in sight. When Eastman isn't tracking branches of his own family tree, he's helping others with theirs.

"Why is genealogy so popular? I can't tell you," he says. "Maybe it's our society. We relocate around the country, travel a lot, and we live in an age of divorce and split families. I think there is a psychological feeling of 'who am I?' We're all looking for a little foundation. I've never known anybody who has said, 'I'm done.'

Serious About Funnies

It was the early 1980s when two comic book creators, Kevin Eastman and Peter Laird, had an idea for a spoof on the comic book market. They created some odd characters as a parody of the mainstream comic book, self-published it with limited resources and distributed it thinking what a great laugh folks would have. The characters they created? Teenage Mutant Ninja Turtles.

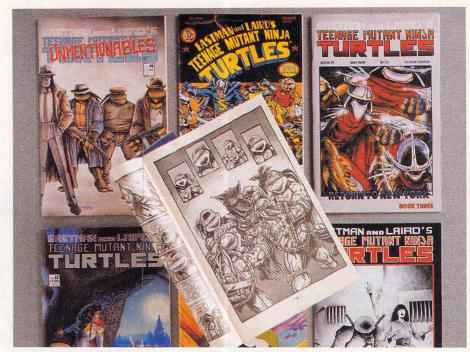
A copy of that first black-and-white book, which sold for just \$1.50—originally meant by the authors to be the only book—is now worth between \$175 to \$240. The joke is now worth millions.

It is said by some that the comic book market is more whimsical than Wall Street. Values can soar and then plummet, all in a matter of days or weeks and for no discernible reason. Will Shetterly, a comic book writer of the Captain Confederacy series (SteelDragon Press) and Home Is a Hard Place for Open Space #3 (Marvel Comics), says that comic books seem to be worth more when the general economy is strong, "Comic books can be worth a great deal because they hold so much sentimental value to so many adults. When the economy does badly, most comic books are viewed as merely garish newsprint magazines with awkward writing and uninspired art."

Shetterly thinks most comic book collectors are unsophisticated investors. They buy not for the potential value of the book, but rather because they love the artist or the character.

Comic book creators realize there is a potent collector's market, but most seem to pay little attention to it when writing and drawing comics. "I write and draw for the audience that is reading my work, not collecting it," says Walter Simonson, a writer of the Fantastic Four series, one of Marvel Comics' flagship titles. "I also do it for me. I'm creating a story that interests me." Still, he admits that learning a book he created nine years ago now sells for \$20 is a thrill.

What's hot now? Batman has been popular for some time, thanks to a resurging interest sparked by last summer's movie with Michael Keaton and Jack Nicholson, but it seems to be waning. Captain America and Captain Marvel from the 1930s and 1940s sell well among collectors, and Superman and Batman comics from the 1930s will bring in thousands of dollars. The first Superman comic book, which was the first



Comics parody became latest rage in animation: Teenage Mutant Ninja Turtles

comic book devoted to a single character, sells for a staggering \$30,000 in mint condition. But, holy inflation! The first Batman comic book sold this winter for \$80,000 cash to a dentist in Virginia.

It's anyone's guess as to what makes one comic hot and another flop. Classic storytelling in a bold, dramatic style is usually a hit. The best way to make money in this market is to buy the comic when it is first published for a dollar or two, never open the cover and immediately store it in an acid-free plastic bag. Sit back, wait and hope for the best. You may have to wait 20 years for the pay-off, and only then if no one else guessed that this comic book would be valuable some day.

—Cathryn Conroy

Buying and Selling Comic Books

If your childhood love of reading comic books has turned into an adult penchant for collecting them, you can benefit from investing and collecting information in the Comics/ Animation Forum.

Buying & Selling, Section 4

The Collecting section on the forum's message board is the place to exchange stories, get advice on buying and selling, and meet fellow collectors.

Library 4, Collecting Comics, is packed with useful files. Redbeard's Book Den inventory of back issues from the Golden and Silver Ages offers a definitive price guide for buyers and sellers through this major mail-order retailer (RBD.INV). Operated by forum member Ron Pussell, the Book Den is one of the largest sellers of collectors' comics. Forum members also offer their requests to buy, sell and trade specific books as well as entire collections.

Fascinating facts, such as an Elfquest bibliography (EQ), and computer graphics of classic comic book covers, such as *Swiss Family Robinson* (Cl42.ARC/binary) and *King Solomon's Mines* (197.ARC/binary), are also available.

Animation Cels, Section 6

Collecting animation cels is the latest rage, though they are a bit pricey. A cel is a painting that comprises a single frame of an animated film. It is usually done on clear acetate, laid down on top of a painting of scenery and photographed by a special movie camera that takes one frame of film at a time. Animation cels from the film *Who Framed Roger Rabbit* sell for a staggering \$30,000 to \$40,000 apiece. The library files include dozens of RLE digitized images of animated favorites.

Meet the Pros, Section 1

Collectors can benefit from direct contact with many professionals in the field who are active forum members, including Peter Laird, co-creator of *Teenage Mutant Ninja Turtles;* Emmy award-winning David Wise; Disney employee and *Gummi Bears* producer Tad Stones; and many more. A complete list of all the pros is in PROBIO.TXT in Library 1, General.

For more information, consult the Comics/ Animation Forum (GO COMICS).

-cc

How to Get Started on a Hobby

Hobby Industries of America estimates that a full 70 percent of US households have at least one person involved with a hobby or craft. If you fall into the 30 percent who are not yet hobbyists but you think you might like to try something, here are some tips on how to get the right hobby fit.

- Before buying any materials or taking any classes, pick up some hobby magazines and books.
- Try to find out how much time is involved in the various projects you might undertake. Ask yourself how much time it will take to get satisfaction from the hobby, and how that fits with how much time you have to give.
- Craft and hobby shops often offer inexpensive introductory classes in a particular activity. Try one before you launch yourself full force into a new hobby.
- Some hobbies require learning a new skill-from the proper handling of tweezers for mounting a new stamp collection to the intricate process of ceramic glazing. You probably won't do a perfect job the

first time, but give yourself the freedom to grow and learn, and you'll avoid frustration.

More than anything else, you need information before beginning a new hobby. And

that's what CompuServe's forums can do for you, says CompuServe product manager and model airplane

builder Dan Meeks. In the hobby forums, hobbyists can find the right fit, tap expert advice and listen in on daily shop talk on trends, products and competitions.

"The beginner can investigate everything online, from aviation, baseball cards and coins to scuba diving, tropical fish and genealogy," says Meeks. "If he can't decide which hobby to pursue, he can get a full range of advice from unbiased beginners and experts."

Ultimately, this saves money. Without doing preliminary investigation, a beginner can make the mistake of jumping into a new hobby, investing hundreds of dollars and then finding it was the wrong choice. Even if the match is right, expensive decisions have to be made at the outset. Scuba diving is a good example.

"Lessons can average \$150 to \$200 per series," says Rick Drew, master instructor

and Scuba Forum sysop. "There are six-week and 12week sessions and weekend crash courses. A lot of new divers rent the wrong gear; and, if they decide to buy equipment, they have to decide whether to spend \$500 or go wild and spend thousands. A lot depends on where you're located. Up north you're going to need a full wetsuit and more weight. In Florida you can get by with less."

Even the intermediate and expert hobbyist occasionally needs guidance. Meeks points out that local sources can run dry of information, but online information is unlimited.

"When you ask a question in a forum, you get group reaction," says Meeks. "If an online expert doesn't have the right response, he knows someone who does, and he'll point you in that direction. This is especially important as you progress in a hobby and exhaust the expertise of the local hobby shop owner."

Take collectibles, for example. "Right now we have more than 750 people who have put

their interests into our mem-

bership directory," says Dave Cunningham, administrator of the Coin/Stamp Forum. "We think of our forum as a gigantic stamp, coin, baseball card, and autograph club where anyone can get as much or more than he puts into it."

As similar as hobby forums are to hobby clubs, they also resemble specialty magazines. However, their tables of contents are

endless.

FEATURE

"Magazines sometimes deal with a topic," says Meeks.

"For instance, a modeling magazine might announce, "This month we're going to talk about glue.' But maybe I don't care about glue, maybe I want to know how to cover the aircraft that I'm building. The material offered might be great, but it's not in the sequence that I need. With a forum, I can pick my own sequence."

-HGM, CC

It's Good for You!

When Dallas psychologist Robert Hemfelt counsels hard-charging, over-stressed patients, he often hands them paper and pens and tells them to draw some pie charts. Each "pie" represents a typical day and is sliced into wedges that are labeled according to the patient's activities for that day. The size of each wedge is determined by how much time is devoted to each activity. Work? Hobby? Exercise? Sleep? A quick glance at his artwork tells a patient if his life is in balance, or if some activity-usually his job-is nudging out all the fun and can lead to stress and burnout.

Dr. Paul Meier, a colleague of Dr. Hemfelt's at the Minirth-Meier Clinic in Dallas and coauthor of Worry-Free Living and How To Beat Burnout, concurs.

"It's worthwhile to plan, at least three times a week, activities specifically dedicated to recreation, something not connected with your line of work. If you're experiencing burnout or near burnout, try some kind of recreation other than your usual, since it obviously isn't helping your situation."

Hemfelt and Meier agree that some highly driven people have difficulty seeing that their lives are out of balance. In such cases, they suggest that patients should create detailed

logs of their weekly activities.

"I don't want to hear what they say they do, I want to see what they do," says Meier. "That way, I'll know where their priorities are. At certain times, a person may have to pull out all the stops and work long hours-there's certainly nothing magical about a 40-hour work week. But the schedule has to be reasonable. There has to be balance."

Hobby-seekers can 'try before they buy' online: Meeks

-HGM

Sysops' Favorite Files

If you're a newcomer to a hobby and don't know which forum library to go to first, check out the sysops' favorite picks.



Scuba Forum

"We have a whole section—Library 8, 'Diving Education'—dedicated to diver education. The novice can learn how to shop for lessons and what kind of diving course is best. Library 2 'Events and Clubs' is another good resource. It contains a list of more than 200 scuba clubs across the country."

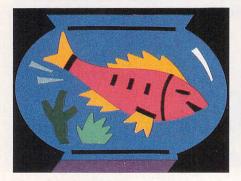


Outdoors Forum

"In Library 12 'OWAA,' several members of the Outdoor Writers Association have uploaded articles they've written for various publications. Forum members can read tons of interesting stories by well-known writers."

-Joe Reynolds





Aquaria/Fish Forum

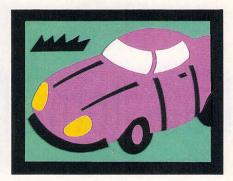
"Library 1 'Beginner's Library' holds 40 of the best files selected for beginners. It covers basics such as how to select fish, how to feed them, how to control algae, and more. Whereas our other libraries contain 400 to 500 articles each, we wanted to keep Library 1 to a more manageable size. I capped it at 40, so if I put a new file in, I take an old one out."



TrainNet Forum

"Library 3 'Directories' has a list of all the magazines that have anything to do with modeling or railroading. Also, there's a stateby-state register of model railroad stores."

-Dorr Altizer



Photography Forum

"Our favorite files are in the graphics area (Library 6 'The Gallery'). A section called 'The Gallery' contains photos of everything from a jaguar sportscar to Sophia Loren."

-Mike Wilmer





Model Aviation Forum

"We have two specialized libraries that are a great resource for modelers. In Library 3 'AMA Club Index,' there is a list of all the model airplane clubs in the country broken down by state and city. Library 4 'Hobby Store Index' offers the same kind of information about hobby shops."

—Doug Pratt



Genealogy Forum

"By far, our most popular file is the tutorial in Library 1 'General Information'. It takes a few minutes to download, but it's excellent background on what this hobby is all about."

—Dick Eastman



Coin/Stamp Forum

"Library 6 'Baseball Cards etc.' contains one of our strongest groups of files. That's where you'll find the price guide for baseball cards plus the GIF files of the typical baseball card designs beginning with 1971."

-Dave Cunningham



Datastorm demand increases: Robertson

Datastorm Thunders Ahead

ProComm's creators leave PCVEN for their own forum, supporting DT's products, utilities and scripts.

Storming out of the PC Vendor Support area and into a forum of its own, Datastorm Technologies (GO DATASTORM) promises

lightning-fast response to customer

support questions.

Even with the diverse interests of the people who use CompuServe, there is one thing shared by all: the need for a good, solid telecommunications program. No matter how much a person may know about serial data transfer or the Hayes command set, the features of the telecom program used can often make the difference between a pleasant and productive session, or a nightmare of confusing commands, accidental disconnects and other problems.

In the MS-DOS world, two of the most popular programs for telecommunications are ProComm and ProComm Plus, from Datastorm Technologies. These programs provide basic features such as automated dialing, file transfer protocols and terminal emulation, as well as advanced capabilities such as a built-in script programming language,

keyboard macros, a host mode and, best of all, an intuitive user interface.

Until recently, Datastorm provided online support for ProComm and ProComm Plus through the PC Vendor Support Forum. The move to a new forum was prompted by a desire to better serve Datastorm's customers, as well as to relieve pressure in the overcrowded PC Vendor Support Forum. According to Sysop Mike Robertson, "At the time we moved to our own forum, our message traffic amounted to close to half of the total messages in that forum." With the release of two new products (a network version of ProComm Plus and a file transfer/directory management tool called Hot Wire), this situation could only worsen. The creation of a separate forum, with message areas and libraries dedicated to individual Datastorm products, was a natural solution.

The new forum is organized along product lines, with separate libraries and message areas for all four Datastorm products, as well as areas for general help, telecommunications utilities, and "scripts" written in ProComm's programming language, AS-PECT. A few of these scripts are listed in the box accompanying this article, but this does not begin to represent the variety of scripts available in the libraries, which cover applications ranging from automatic call forwarding and CompuServe message downloading, to weather map access and ham radio functions. For those who can't find the scripts they need but are reluctant to dive into any programming language, the libraries also contain several script-generating programs, which reduce the task of ASPECT programming to a simple set of menus.

COMPUTING SERVICES

CM's Computing Services Credo:
For those who call out for advice, answers, even mere companionship in a discomfiting computer world, we throw you the online rope that connects to the main. No man is an island unto himself. Herein the Control-G tolls for thee.

Aid for Popular Programs

InfoWorld Debuts, p. 26

Banyan Spreads Its VINES, p. 27 CompuServe customers who don't use ProComm or ProComm Plus can still find some gems in the Datastorm libraries, most notably the shareware version of ProComm 2.4.3. Since the release of ProComm Plus, Datastorm has released this fully functional version of the earlier program with the usual shareware conditions: Download the program and try it out for free. If you like it, register with the company for full support. The \$50 registration fee includes a complete, bound manual. Those who prefer to work without documentation can register for \$35.

Since Datastorm's area of specialization is telecommunications, it comes as no sur-

prise that the company has a heavy online presence. Three of the forum's four sysops are full-time Datastorm employees, which means that all questions can be answered with absolute authority. Response times range from a few minutes to a few hours, and Datastorm is committed to responding to all messages within 24 hours.

And like all of CompuServe's forums, savvy users are also an important part of the Datastorm Forum. A survey of recent messages shows solutions to problems involving call-waiting (certainly the bane of every modemist's existence), downloading at 2400 baud, and using the YMODEM protocol, all

provided by some of the forum's 2,700 members. In fact, the level of expertise on telecommunications subjects available here makes the Datastorm Forum a worthwhile area for all CompuServe users, regardless of their computer or software.

So no matter how you connect to Compu-Serve, the Datastorm Forum is a recommended stop. Who knows? Maybe you'll finally learn how to do high-speed background batch transfers using the SEALINK protocol, or maybe you'll just learn how to avoid accidental disconnects when a family member picks up the extension phone.

Jim Johnson is a free-lance writer based in Chandler, Ariz.

Top Picks in the Libraries

Popular files in the Datastorm libraries:

Technical Q&A: Answers to many common technical questions. QANDA.TXT (Library 1, "General Help")

Installing Z-Modem: Instructions for installing the ZMODEM file-transfer protocol in ProComm Plus. ZHOWTO.ARC (Library 1, "General Help")

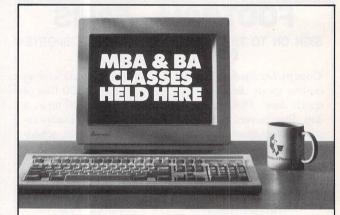
ASPECT Script files: A program for generating ASPECT script files, for automating ProComm functions. PSW.ARC (Library 1, "General Help")

ProComm Plus Test Drive: A "test drive" version of ProComm Plus, including the program itself and abbreviated documentation. PCPLUS.ARC (Library 3, "PROCOMM Plus")

ProComm Shareware: Version 2.4.3 of ProComm, released as shareware since the introduction of ProComm Plus. PROCOM.ARC (Library 4, "PROCOMM")

Automatic Downloads: A script file for automatic downloads from the CompuServe libraries, for ProComm Plus. CISDLD.ARC (Library 7, "ASPECT Scripts")

Modem Set-ups: Script and document files for setting up several high-speed and error-correcting modems. MODEMS.ARC (Library 8, "Modern Setup Scripts")



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InfoWorld has gone electronic, bringing with it everything you find in the print version—from the top industry news developments to the software and hardware reviews and columnists. The current and previous week's editions are published in InfoWorld On-Line. In addition, the reviews, product comparisons and impressions from both weeks can be downloaded for a surcharge of \$4 each.

With 170,000 subscribers who pay subscription charges of \$110 for the first year and \$69 each year thereafter, *InfoWorld*'s debut into electronic publishing is something of note. Not only do the new electronic readers get the full advantage of the print edition at a significantly lower cost and at great convenience, but the publisher is also able to reach a much wider audience, giving the magazine greater recognition.

"InfoWorld is interested in being a part of the electronic publishing industry. It makes us more competitive, and it helps us develop



InfoWorld goes electronic: Back issues online

our expertise in this area of the computer industry. It also offers us new ways to present material and interact with our readers," says Jo Rainie Rodgers, *InfoWorld*'s manager of online services.

Reader surveys indicated that subscribers wanted electronic access to the news weekly. To make its electronic database more valuable to its readers, *InfoWorld On-Line* also features a searchable database of its product comparisons, reviews and impressions. This up-to-date information, critical to anyone buying computers, software or peripherals, is quickly and easily available.

"People love our comparisons. They're timely, in-depth and they offer readers important information about products," says Rodgers.

InfoWorld's product comparisons are comprehensive and detailed. Produced by the publisher's Test Center, which is staffed by 16 computer whizzes who design and test a variety of products, the evaluations focus on microcomputer hardware, software and peripherals.

The features of a product selected for evaluation are determined through a weekly, random survey of 1,000 *InfoWorld* subscribers who have expressed particular interest in a certain product category. Test Center personnel along with members of the editorial staff and the 40-member review board of selected industry professionals develop tests based on the survey results, so the unbiased evaluations measure a product's performance based on the features considered most important by users.

Online searches of these expert product comparisons, reviews and impressions can be conducted by specific product, by software or hardware category, or by company name.

If you are searching by software or hardware category, the system presents you with a menu of items ranging from the obvious—spreadsheets and word processors as well as desktop computers and printers—to the not so obvious—personal information managers and expert systems as well as film recorders and scanners. If you search by product or company, the system prompts you for the specific name you are interested in.

The search takes only a few seconds and yields an introductory article. If you want to read the full text online or download it as an ASCII file, there is a surcharge of \$2 per file.

For more information, consult InfoWorld On-Line (GO INF).

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Under the Banyan Tree

COMPUTING

SERVICES

Networking software vendor branches out with new services.

Members interested in breaking the language barrier with networking software can find members, resellers, and marketing and technical support people with similar interests in BANnet (GO BANYAN), the online help services provided by Banyan Systems, a networking hardware and software manufacturer in Westboro, Mass.

Company officials who spearheaded Banyan's move to "network the world" wanted a method of sharing information and supporting their VINES® user base from one online location. Their search brought them to CompuServe.

"We originally had a private bulletin board system that was very successful," says

Deb Epstein, Banyan Systems' applications support engineer and forum administrator of the Banyan Forum. "We

wanted to make that type of service available to a larger group of people. CompuServe was our answer to the problem of providing support for our end users and for providing information to the widening Banyan realm, which has become worldwide. Our previous bulletin board system could no longer handle the needs of that worldwide base.

Most Banyan resellers already have CompuServe User IDs, which is another reason why CompuServe was a logical choice for Banyan's upgraded bulletin board service, says Epstein. "We are also offering Compu-Serve Information Service memberships to end users who buy Banyan products," she says. "Our user group members will receive CompuServe User ID numbers. And certainly, members who already log on to the Information Service can learn more about Banyan's networking software in the forum."

BANnet consists of several services as well as a forum. From the top menu, members can access a directory of Banyan services, including: Banyan News & Infoline, Banyan Systems' one-stop-source of marketing, international and corporate news; Banyan Systems online corporate newsletter; Educational Services, a listing of training programs and centers available throughout the world and an online catalog; Third Party Marketing Programs, which lists information on developing your own software to run under VINES; TechNote KnowledgeTREE, a keyword-searchable database of networking information; Third Party Product KnowledgeTREE, a library of VINEScompatible software and hardware; the Banyan Forum; and The Suggestion Box, a feedback area designed to accept user comments, complaints or suggestions for product enhancements and BANnet.

"The Banyan Forum has approximately 20 sysops, including myself, who are responsible for various areas within the forum," says Epstein, "so each area of BANnet will be

> monitored and updated as often as possible."

Banyan Systems is a sixyear-old company with 500-

plus employees and a 70 percent growth rate for the past fiscal year. The company experienced 100 percent growth in the two previous fiscal years. VarBusiness magazine in September 1989 noted, "Banyan is the first software vendor that value-added resellers have ranked No. 1 in every product and support category." The review lists ease of use, software quality and level of technical support as the deciding factors.

The VINES products are primarily for use within the MS-DOS environment, says Gary Wolfe, editor, corporate relations. "VINES is compatible with the PC-AT box and the microchannel box," says Wolfe. "Last February, we introduced an OS/2 version. It should be available to ship by the third quarter of this

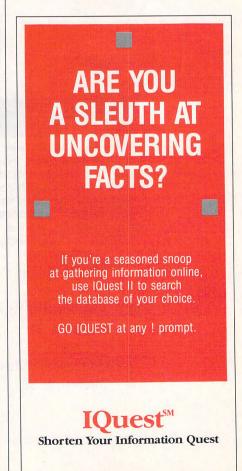
The VINES networking software group enables companies to build their own internal network, connect to outside networks or electronic mail programs, and to "add on" should the company's needs change. A standard, fully integrated feature of VINES is StreetTalk, a global directory of network names and addresses that can be searched like an electronic yellow pages. "You don't need to know anything about the gateways, or anything else that is between you and the person or company you are trying to contact," says Epstein.

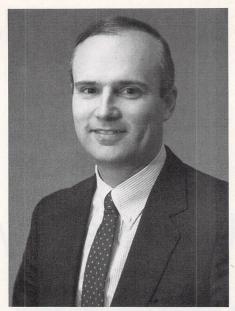
"StreetTalk is fully compatible with all VINES functions, including file services, security, electronic mail and IBM connectivity," she says. "And VINES supports multiple languages, meaning a user in Germany can access and use German-language menus to navigate through the network and perform tasks such as creating and sending messages." VINES also supports foreign (eight-bit) characters in item names and international time zones.

"We feel this offers a convenient solution to networking multilingual situations and even multilingual societies," says Epstein. Her sysop team will include those who are at least bilingual themselves, so that Germanor French-speaking BANnet users can seek help from a sysop in his or her native language. "We offer some of our press releases and online technical materials in French and German," she says.

As a company, Banyan is planning for the Europe of 1992, where analysts predict that the only barriers to trade will be linguistic.

Gayle Brown is an assistant editor of CompuServe Magazine.





International investments increase: Gibson

Mutual Funds: From Pariah to Paragon

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Yields Ahead

Keeping Track of Your Fund, p. 31

A Database of Mutual Interest, p. 32

Almost as safe as CDs, but with better returns, Mutuals are the 'passbook savings' of the 1990s.

Mutual funds in the mid-1970s appeared to be a trendy investment in decline. The sizzle had gone out of "go-go" funds and the stock market crash of 1974 left many investors leery of investing in the stock market. Most mutual funds at that time were invested in growth stocks-the "nifty fifty," as well as the burgeoning but riskier technology stocks—so interest fell off dramatically.

Instead of dying out, however, mutual funds went on to become one of the most popular investments of the 1980s. Today, mutual funds are edging out—in many people's minds and portfoliosthe passbook savings account and certificate of deposit (CD) as the investment vehicle of choice. (See Chart A.)

Inspired by the need to revive public interest and confidence in mutual funds, the industry in the mid-1970s took the mutual fund concept and applied it to fixed-income securities-and the money market fund was born. Taxfree municipal bond funds, US govern-

ment bond funds and numerous other fixedincome funds also were trotted out to the marketplace.

With double-digit inflation increasingly weakening the purchasing power of Americans in the early 1980s, investors flocked to these higher-yielding (although not insured)

fixed-income funds, particularly the money market fund. And while the "go-go" funds of the 1960s had appealed to the "high roller," mutual fund companies were now capturing a new market—the more conservative, rateconscious "saver."

Buoyed by the success of the money market fund, and strong bond and stock market performances throughout most of the 1980s, other mutual funds began to proliferate. Today investors have a dizzying array of mutual fund products and companies from which to choose. In fact, the total number of funds available jumped from 564 in 1980—to more than 2,700 in 1988.

Unlike the early "go-go" days when mutual funds invested primarily in highgrowth, high-risk stock portfolios, today's funds invest in a variety of vehicles from over-the-counter stocks, convertible bonds, corporate and US Treasury bonds, precious metals and options, to international securities.

As the spectrum and number of funds grew, many mutual funds companies shrewdly packaged their fund offerings into a "family" of funds—to add convenience and flexibility to the appeal of a mutual fund. By investing in a fund family, whether Fidelity, Putnam or Stein Roe, investors could switch from one fund to another (most without charge) within the same family—to adapt to changing market conditions, as well as their own individual needs.

If the stock market crash of October 1987 did anything to change investor perceptions about mutual funds, it reinforced the investment maxim "diversify, diversify, diversify." The need for diversification has popularized two other types of funds in the last several years—"sector" funds, which invest in a particular industry, and "index" funds, whose portfolios duplicate the stocks (and bonds) of a particular investment index. Sector funds, particularly, allow investors to target virtually any industry they choose—including utilities, life insurance, transportation, health care, broadcast and media, and food and agriculture.

Perhaps another consequence of the 1987 crash is that more investors have awakened to investment opportunities outside the United States. Many investors are perceiving "globalization" of their portfolio as a good way to hedge against the uncertain performance of the US economy.

"Internationalization will continue to be a strong investment trend in the 1990s, particularly as economic consolidation takes hold in Europe," suggests Stephen Gibson, first vice president with Kemper Financial Services. "Investors will increasingly see the need to invest not just in the United States."

Mutual fund companies have already targeted this trend by introducing a variety of international stock and bond funds, and "country" funds to the marketplace. Some companies are even establishing branch offices overseas to enable them not only to

market foreign products to the United States, but also to penetrate those foreign markets.

International funds can be as diverse as their domestic counterparts, offering investments in foreign corporate and government bonds, commercial paper, and foreign common stocks and convertibles. Certain funds invest in a specific area or country; others can invest wherever the investment managers see opportunity.

For those investors who are baffled by all of the choices available, there is yet another product trend some mutual fund industry analysts see on the horizon.

"I think most investors welcome the product diversification that has occurred in the mutual fund industry, but a large portion of them still can't match products to their needs to determine where their money should be," Gibson says. "I think we'll see more mutual funds designed to meet specific investor needs: a 'college saver' fund for the investor with a growing family, for instance, or a speculative 'get rich quick' fund for the more aggressive investor."

Part of the reason for this trend, according to Gibson, is a natural consequence of the maturation of the mutual fund industry. "As more and more mutual fund companies round out their product lines and the industry consolidates, company distinctions will become blurred, and the mutual fund busi-

ness will have to be redefined." Placing an emphasis on products and services built to satisfy specific investor needs is one way mutual fund companies will seek an edge in the 1990s.

Evaluating a Mutual Fund

Sifting through the myriad of figures and rankings to evaluate a fund's performance can be frustrating and confusing. Since each type of fund (equity, bond, money market) has its own set of performance criteria, it's helpful to know some key distinctions and similarities.

Load, No Load. The sales charge to purchase a mutual fund is called a "load." Load funds are sold through brokers or financial representatives at an average range of 5 to 8 percent sales charge. If you already know which fund you'd like to purchase and don't need the advice of a broker, a "no load" fund can be purchased directly from the mutual fund company. Some funds, often referred to as "12b-1 funds," charge no initial sales charge; instead, you pay an annual distribution fee. Some funds also can charge a backend fee, or penalty, if you withdraw your assets before a specified period of time.

Net asset value. This is the value of one mutual fund share, which is calculated by dividing the market value of all the securities owned by the fund (less its liabilities) by the number of fund shares outstanding. It is

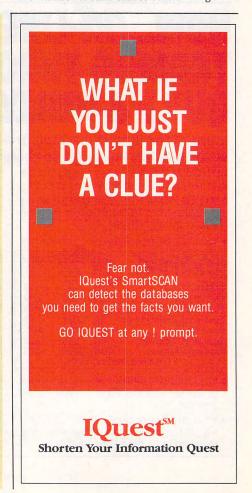
ASSET LEVELS 1978–1989 (9/89) (\$ Billions)*

	Money Market Mutual Funds	Non-Money Market Mutual Funds	Certificates of Deposit (CDs) (less than \$100,000)
1978	\$10.9	\$45.0	\$519.4
1979	45.2	49.0	633.1
1980	74.4	58.4	727.9
1981	181.9	55.2	823.0
1982	206.6	76.8	851.4
1983	162.5	113.6	784.8
1984	209.7	137.1	887.5
1985	207.5	251.7	883.9
1986	228.3	424.2	855.1
1987	254.7	453.8	915.2
1988	272.3	472.3	1,027.3
9/89	345.4	538.7	1,129.8
Average	Annual Increase (19	78-88)	
	54.6%	28.0%	7.7%
Cumula	tive Increase (1978-8	8)	
	3,081.1%	1,097.6%	117.5%

*Asset levels do not include tax-free investments.

Sources: Investment Company Institute (money market and non-money market mutual funds), Federal Reserve Bank (retail CDs less than \$100,000).

Chart A



common to all types of funds.

Stock funds. These are generally managed for long-term capital appreciation rather than income or dividends, and their performance is measured largely in terms of the change in value of the fund's securities.

Total return. This measures any appreciation (or depreciation) in the value of the fund's shares, along with reinvested capital gains/losses resulting from the sale of a fund's holding (stock) and, to the degree that the fund is managed for income, it includes any reinvested dividend income.

Cumulative and average annual total return. A fund's total return is typically represented in one, five and 10-year performance periods. A "cumulative total return" measures the fund's total increase (or decrease) in value over a specified period of time, assuming reinvestment of all dividends and capital gains. The "average annual return" represents a fund's hypothetical yearly total return, compounded annually, had its performance been constant over the specified period.

Bond funds. These are similar to stock funds in that share value can fluctuate daily. And although bond funds use a "yield" in

their performance data, it cannot be confused with the yield on a CD, which is fixed and insured. After years of confusion over how to represent the return on a bond fund. the Securities and Exchange Commission (SEC) formulated a value called the "SECstandardized yield.'

SEC yield. This figure is calculated by a complex but standard set of criteria, and it represents the yield-to-maturity of the bonds in a fund's portfolio. The SEC yield takes into account not only the amount of income paid by a fund, but also the value of each bond-whether premium or discount-at maturity.

Money market funds. A money market fund differs from a stock or bond fund in that its share value is fixed at \$1. Its yield, however, can fluctuate.

Current yield. Also known as a seven-day simple yield, the current yield is the fund's return for a particular week, expressed on an annualized basis. It does not reflect compounded earnings.

Compound effective yield. This represents the current yield after compounding of interest over a 12-month period.

Average annual yield. This is often pre-

sumed to be the most accurate representation of actual return, because it is based on periods greater than one year.

Tax-free funds. Stated yields on tax-free funds are generally lower than yields on taxable funds, which might make them look less attractive. But once the effect of paying income taxes on a taxable yield has been taken into account, the comparison is more favorable.

Taxable equivalent yield. This is a yield you would have to obtain from a taxable fund to equal the tax savings implied in a tax-free yield. If the tax-equivalent yield is not stated alongside a tax-free yield, it's easy to calculate: Taxable equivalent vield = (Tax-free vield) divided by (1 - your tax bracket).

Fund rankings. Many funds will advertise, along with their rate of return, a ranking. When you're researching a fund and want to know how it compares to others of its kind, you'll find performance analyses, which are distributed monthly and quarterly by ratings services such as Lipper Analytical Services (Summit, N.J.) and CDA Investment Technologies (Rockville, Md.), very helpful.

Jenifer Reuff is a free-lance business writer and marketing communications consultant based in Chicago.

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	49	96	129		
	97	195	356		
	91	201	438		
	97	196	404		
	94	186	404		
	105	210	420		
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For low- or no-load funds, type GO NOLOAD to search the database furnished by the Mutual Fund Education Alli-

ance. In addition to providing helpful hints and a glossary of terms, the menu-driven service allows screening for funds satisfying your investment objectives and offering the investor services you want.

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The following software, together with historical quotes (GO MQDATA) and current day NAVs (GO QQUOTE),

can aid in the evaluation process.

The Mutual Fund Investor (\$195; American River Software, 1523 Kingsford Dr., Carmichael, Calif. 95608; 916/483-1600) automatically retrieves CompuServe data. It requires an IBM or compatible with 640K of memory plus a hard drive. MFI permits tracking of funds on a daily or weekly basis and provides graphs for 10-, five-, two-and-a-half-, and one-year horizons. It also plots performance comparisons between any two dates and calculates moving averages. The MFI package also features a portfolio management system.

Which mix of funds in a portfolio will achieve the optimum return? One method of reaching a possible determination is to run DIVERS.ARC, an IBM-compatible shareware program. It can be downloaded from Library 5, "Mutual Funds," of the Investors' Forum (GO INVFORUM, \$45 registration). Actively supported online by its creator, Thomas E. Duce, DIVERS.ARC analyzes the mean-variance-covariance (Markowitz model) of a set of up to nine funds, estimating the efficient frontier and mixes of funds that minimize risk for a desired return. Duce is working on an upgrade that will handle 20 funds and download quotes.

Dividend and capital gain distributions can dramatically enhance your income flow and may have major tax consequences. Before investing, type GO DIVIDENDS to obtain a record of previous payouts, or GO MQDATA to download them to a file.

While no- and low-load funds are directly purchased from the fund distributor, you'll need a broker to buy the more traditional funds. Both Quick & Reilly (GO QWK) and Spear Securities (GO SPEAR) handle transactions with such well-known and respected companies as Franklin, Kemper, Putnam, Nuveen and Van Kampen Merritt.

-Mike Pietruk

Why Invest in a Mutual Fund?

MONEY

MATTERS

Mutual funds are open-ended investments designed to provide a wider variety of investment opportunity to the average investor. Here are some of the reasons why you might want to invest.

- Affordability. Many investments become more affordable when investing through a mutual fund. Buying an individual bond on your own can cost you up to \$25,000. Many high-quality stocks are also expensive to own individually. Through a mutual fund you can invest in a diversified portfolio with as little as \$1,000.
- ▶ Increased diversification. Because mutual funds are more affordable, it's easier to spread your resources among a number of different investments or fund types—which is a prudent way to help reduce your risk.
- Professional management. With most funds you're buying some of the industry's smartest, most diligent money managers available. Increased volatility in stock and bond markets has prompted many investors to leave their investment decisions to professionals. Others may not have the time or expertise to go it alone.
- ► Convenience. It's often the bottom line in our busy culture. With most mutual

- funds, you can add to your investment with as little as \$25 through an automatic investing plan, and have your dividends automatically reinvested to compound your earnings. Most services are available at no extra charge, unlike an individual stock or bond account.
- Dollar cost averaging. An easy way to lower the average price you pay per share. By investing a regular amount monthly or quarterly, you automatically buy a lower number of shares when the price is high, and a larger number of shares when the price is low.
- ▶ Investment flexibility. If you invest with a mutual fund company that has a family of funds, you can move from one to another at no cost—as market conditions change or your investment objectives are altered. It's a convenient service for market timers as well.
- Simplified recordkeeping. The mutual fund company takes care of submitting a Form 1099 to the IRS indicating all the dividends and capital gains paid to you throughout the year. Most will send you a confirmation statement each time a transaction is made. And a mutual fund company also provides safekeeping for your share certificates.

-JR



GO OLI for more information.

Choosing a Mutual Fund

One of the most important steps in choosing a mutual fund is to define your investment objective—and to match it to an appropriate fund type. Most funds seek to provide one or a combination of three objectives: stability (capital preservation), income (dividends) and growth (capital appreciation). Here's how the objectives are generally represented on a typical spectrum of funds.

The particular objective you're likely to select will depend primarily on your age

and risk tolerance. If you're young, for instance, you'll probably want to be more growth-oriented than if you are nearing retirement, when you'll be more concerned about preserving your assets.

Risk tolerance, however, is more a reflection of your personal preference: How much are you willing to put your money at risk for a potentially greater return? And once you get started, you'll want to keep diversifying your investments. Don't put all your assets in one fund group.



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Watch for *Money* Magazine

A searchable database dedicated solely to mutual funds! That wish of many long-term investors will soon be a reality with the Money magazine mutual fund database, a joint effort of Money magazine, CDA Investment Technologies and CompuServe. Says Money magazine's Franchise Development Director Jonathan Bulkeley, "We have created, exclusively for CompuServe members, a service that will allow them to screen within minutes more than 1.560 no-, low-, and full-load mutual funds for desired characteristics and performance measures, and then obtain a complete report on those funds."

The screening process will be entirely menu-driven. Most users will want to begin by focusing on investment objective, e.g., growth, income, or global funds, then further narrow the field by defining characteristics such as expense, risk and market performance. Results can be evaluated by returns over different time horizons or performance over the most recent bull or bear market.

In addition to screening, the Money magazine mutual fund database will enable you to retrieve two-part, detailed reports on any fund by entering its ticker symbol. Part one of the report will provide descriptive data accompanied by relative market performance information. Details include total assets in millions; asset allocation between cash, fixed income and equity securities; and the latest 12-month dividend yield in percent. In addition, a comprehensive expense and risk section will provide much-soughtafter data in a single concise table. Fund performance will be evaluated for specific time periods and compared to its group and the market as a whole.

The second half of the individual fund report will vary slightly in content, depending on the nature of the fund. For stock funds, the 10 largest holdings, including their market values and percentage of the whole portfolio, will be given with the fund's averaged price/earnings ratio. The report also will analyze the fund's portfolio by industry sectors and compare it to that of the S&P 500.

As specific holdings aren't available for bond funds, only a market sector breakdown will be presented. The number of issues held in each sector will be indicated with yield to maturity, coupon rates, maturity dates and

investment quality grades.
Says Bulkeley, "When combined with the other resources of our new Financial Information Center—reprints of the best of Money magazine and support for our WealthBuilder software in a forum of its own-this new database can be the key to successful mutual fund investing."

For the release date, cost information and more, watch What's New (GO NEW).

-Mike Pietruk



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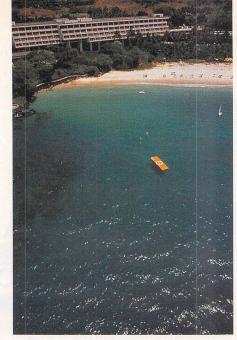
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Mauna Kea: What Heaven Must Be Like

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Hawaii is almost everyone's dream of paradise come true.

Administratively, it is an overseas state of the United States. Geographically, it is a collection of eight islands in the Pacific Ocean. Despite their diminutive size, Kauai, Oahu and Maui, are verdant and have a number of majestic volcanic outpourings. Hawaii, or "The Big Island," as it is commonly called, is the largest in the chain with a variety of vegetation and the highest volcanos, Mauna Kea and Mauna Loa, which rise

Kailua-Kona, on the tranquil western coast of Hawaii, has been relentlessly worn down by visitors seeking paradise and Hawaiians seeking economic opportunity, as the rush is on to open bigger and ever-more extravagant resort hotels. With the addition of a \$180 million, 540-room Ritz-Carlton, Kona Coast hostelries will soon number

eight—double what the area offered in 1986. South Kohala is definitely on a building spree and, according to statistics compiled by First Hawaiian Bank, the number of jobs has

increased 5.5 percent annually. After decades of malaise, that is Big News to the Big Island.

Despite the building boom bringing a new sheen to the Gold Coast, the majority of the island's 345,000 inhabitants live in and around the eastern town of Hilo. Its north, south and west coasts remain all but undeveloped. One segment of the rugged northwest Kohala shore is strung with white-sand beaches, like a lei of native white orchids, and much of the coast road presents impressive vistas of Mauna Kea volcano, in the north central part of the island.

Twenty-five years ago when Laurance S. Rockefeller was looking for the perfect spot in Hawaii to create a luxury resort, he discovered Hawaii's largest island. His Mauna Kea Beach Hotel confection, precisely where a coconut grove meets the Kohala Coast, ranks among the world's top places to relax and revitalize. Small and quiet, given the size and glitz of many Hawaiian sun palaces, this is "traditional" Hawaii, where the sun sets over a palm-fringed beach outside your balcony, and the first tee of a superb 18-hole golf course lies a stroll away from your room.

A short distance from the resort, the terrain changes from black lava desert to green meadow grasses, from kiawe to pine

TRAVEL

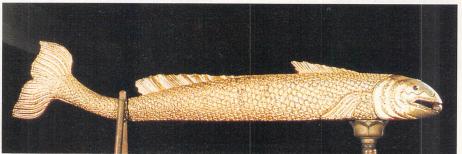
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Big Island," as it is come the largest in the chair of vegetation and the largest in the chair of vegetation and the largest in the largest in

Rockefeller's Jewel of the Isle

Standing in The Shadow, p. 37













and eucalyptus trees, from cactus to wild ginger. Minutes from the beach is Waimea, home of the vast Parker Ranch, where cowboys ride their herds across the range.

While other nearby resorts sport tropical splendors, unusual birds and a bullet-nosed monorail tram (Hyatt's luxurious Waikoloa), the Mauna Kea offers vacationers an extraordinary collection of museum-quality Asian, Pacific and Hawaiian art. From top to bottom, in the true style of Rockefeller's master designers, the hotel's structure is architectural excellence, embellished by the prized pieces of art and the lean lines of Japanese form. The result is on permanent display in the hotel's lobbies, corridors, gardens and dining pavilions.

Rockefeller, a great collector, provided the antiques and artifacts that were carefully selected in the early 1960s to blend with the overall decor of the eight-story Hawaiian hotel. He also commissioned a host of island women to hand-stitch 29 native monochromatic quilts on the premises—a project that took almost a year to complete. All of the eight-foot quilts, representing 60 million

needle stitches, hang in the corridors.

Artwork is integrated into every aspect of the resort experience. Guests find themselves perusing Melanesian tribal masks on the way to the beach. As they walk to dinner, they encounter bronzed statues in a pool of waterfalls and live colorful Japanese carp, which ward off evil spirits. With more than 1,000 art objects on display, it is obvious that the curator has become an important addition to the staff. Consulting curator is Don Aanavi, professor of art history at the University of Hawaii-Hilo, who also serves as guide-lecturer at the hotel.

The tour begins with a seventh-century granite Buddha in the garden. Then, armed with a background and history of Buddhist art, the group moves to the sixth-floor lobby, where a Thai Buddha sits atop an antique chest. On this floor are Melanesian masks, framed garments from 19th-century Japan, a golden Thai fish that is being restored, Japanese fish carvings, and a curious, copperlined wooden box that Aanavi believes is a 19th-century fish bowl.

"Although many of these pieces are of

museum quality," says Aanavi, "Mr. Rockefeller didn't want it to look like a museum, so there are no plaques or ropes around the treasures. The Mauna Kea is a showroom of priceless originals."

A gifted storyteller, Aanavi relates the mysteries and histories behind each magnificent artifact. After a few minutes admiring the massive Maori war canoe stern-post that soars skyward outside the lower dining level, Aanavi points out a bird-man figure and relates its saga.

The tour strolls under cantilevered stairwells and past a lineup of monstrous ceremonial masks woven of straw from New Guinea. Hallways and niches are varied and replete with serendipitous delights: paintings, baskets, pots, carvings and bronzes—ranging from the frivolous to the practical.

The most popular exhibit is the Pacifica Bell collection, which includes temple bells, elephant bells, temple wind chimes, gongs and rattles. The twice-weekly tour is given on Monday and Friday at 11:30 a.m. and is free

The front lobby reception area sums up

Dining in Paradise

Dining choices at the Mauna Kea are among six different restaurants, with the Indian-motif Batik room possibly the favorite for evenings. Besides the usual meat, fish and poultry entrees, three pungent and delicious French-inspired curries are listed on the menu. Such quality of food and service is rare at an island resort. But Alsace-born executive chef Theibaut is a wizard in the kitchen.

Theibaut has combined a traditional European repertoire with spicy Indian concepts and his own highly imaginative innovations. Fresh island seafood forms the golden base of the chef's cuisine which features prawns, mahimahi, Pacific salmon, and baby Kona abalone, served with chilled ginger and ratatouille. Ono is king of the local fish, and sauteed duck breast in a fruity curry sauce will take care of landlubbers.

Each morning a splendid buffet greets breakfast-goers on a terrace overlooking the sea. Tables are laden with smoked salmon, assorted melons, fresh island fruits, and a joyous selection of pastries, pancakes, waffles and omelets, made to order.

And because you are in Hawaii, an informal dining atmosphere prevails. Men may wear a coat for dinner in The Batik restaurant, but a tie is seldom in evidence.



-PP

All Rooms with a View



Cloudless skies, crowdless beaches. Most days, you may share the beach with only a handful of people. And not only will you be able to get into the hotel and restaurant you prefer, you can have a room facing the sea and your favorite table by the window.

The rooms at the Mauna Kea beg to be lived in rather than used only as expensive changing rooms. All come with ocean views. Rooms are outfitted with minibars; a comfortable sitting area with sofa and chairs; mammoth beach towels; soft Japanese kimonos; teak and willow furnishings; ceiling fans; three sets of doors with louvered screens for privacy and to permit in island breezes; an orchid on your pillow; and a toaster is brought in each morning for breakfast on the balcony. A three-night stay ranges between \$230-\$355 to \$610-\$732 per night on the Modified American Plan (breakfast and dinner). Telephone number for the Mauna Kea is 800/882-7222.

Absent in this peace and quiet are televisions and newspapers (guests can catch up on world events in the library). Larger, updated bathrooms are coming. By the architect's renderings, they promise to be knockouts in style and elegance.

-PP

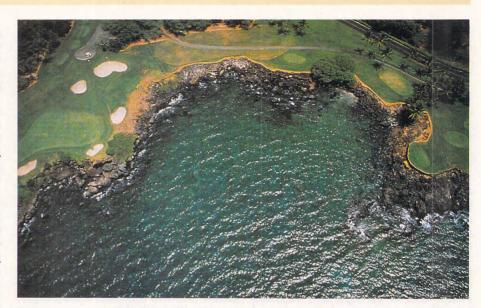


the feeling of the resort: refreshing and romantic. The reception desk itself is made of polished teak and brass. On the wall adjacent is a beautifully carved figure from 14th-century Japan. Greeting guests at the main entrance to the hotel are two gold-leafed figures from Thailand, elegant and peaceful in repose, who hold their hands before them in a universal sign of welcome.

High white ceilings bring in the openness of the Pacific, allowing unobstructed cooling sea breezes; a quartet of large three-legged brass Thai shamas—Asian storage pots—are part of the anything-but-mundane decor. And you've only just begun.

This story ends on a flowered balcony overlooking the summer Pacific with remembrances of Big Island afternoons graced by plates of local roast pork, pineapple, mangos and potent Mai Tais. The "traditional" Hawaii complete with memories of those moments that travel is all about—the brief, satisfying longing never to go home again.

You don't have to be a scratch golfer to appreciate the Mauna Kea's 18-hole Robert Trent Jones-designed championship course. At No. 3 tee, a hole that skirts the cobalt blue Pacific, a four iron may carry to the green. Or it may not. The ocean swallows many balls. Fortunately, the rest of the course is uncommonly easy golf, with long open fairways and slightly terraced greens. Awarded a gold medal by Golf magazine as one of "America's Top 12 Resort Courses," it is a rugged beauty, rolling over 230 acres of hills. It boasts fairways rising from sea level to 300 feet, large undulating greens, doglegs, strategically placed bunkers and scenic ocean vistas.





Mauna Kea has even a further plus for tennis players. Here is one destination resort that really does set up guests with games. Proshop staff will happily arrange games with other registered guests or locals in the area. Don't be surprised if your tennis partner turns out to be a Hollywood star or European monarch: the extraordinary retreat has hosted more celebrities since its opening than all the other Hawaii resorts put together.

Much of the scenic Southern Kohala Coast is shielded from the usual high Pacific winds and colder water temperatures that persist in Hawaii most of the year. Summer is considered by many to be prime time for a Mauna Kea visit because water temperatures are comfortable and trade breezes are pleasant. By day, dress is casual right down to cut-offs and beach attire.

CompuServe readers can readily access flight information: check online in the Official Airline Guide Electronic Edition (GO OAG), Eaasy Sabre (GO SABRE) or Travelshopper (GO PARS). For further travel information, be sure to visit the Travel Forum (GO TRAVSIG).

Getting to Hawaii is simple, too. United Airlines has service (via Honolulu) from more than 100 US mainland cities. Once on the island, collecting baggage is easy, the 25-minute taxi ride to Mauna Kea Beach is a cinch, and you'll be in your swimsuit in record time.

Formerly special sections editor for The Houston Chronicle and columnist for The Omaha World Herald, Pat Pugh is a free-lance travel writer based in Houston, Texas.



TRAVEL

Head for Hawaii to Catch '91 Eclipse

The sunlight begins to dim. It has a strange quality; it isn't reddened, as at sunset, or weakened, as when the sun goes behind a cloud. Animals behave strangely; birds stop singing and cattle start to go home for the night. The patches of light and shadow made by the sunlight shining through the leaves begin to take crescent shapes. Flickering bands of light move across the ground.

At the instant of totality, the last bit of sunlight shining through the valleys around the edge of the moon makes a "diamond ring" with one intensely bright gem. The solar corona appears, like an opalescent halo with streamers and jets. The brighter stars and planets become visible in the sky.

Then the diamond ring and bands happen in reverse. Everyone lets out a collective sigh of awe, then goes home to wait for

Astronomy Forum member Bruce Rabe has chased eclipses from his base in Boulder, Colorado to Mexico

in 1970 and Canada in 1972. On July 11, 1991, he and thousands of other amateur astronomers will station themselves at the tip of Baja California, cameras poised to record a rare seven-minute total eclipse, the longest until 2132.

Typically a solar eclipse, partial or total, happens only every few years and in a remote location. The phenomenon occurs when the moon passes between the sun and the earth, resulting in the shadow of the moon falling on the earth's surface. The shadow cast by a full moon is a circle roughly 30 miles wide. To an observer standing in that 30-mile-wide swath, the eclipse lasts as long as it takes for their location to rotate through the shadow, anywhere from seconds to seven and a half minutes.

Happily for the adventuresome amateur astronomer, the 1991 eclipse will be best viewed from two prime vacation spots, Baja's southern tip and a west-to-east path across the center of Hawaii.

for a couple of years now. Scientific Expeditions, the New York travel agency that books DC-9s and cruise ships for the serious star watcher, sold out for Baja in 1989, and as of January had just a few rooms in Hawaii.

Folks unable to schedule a week away from the office two years in advance, though, are using CompuServe's travel features to avoid missing this stellar show of shows. Before attempting Baja's thousand miles of single-lane highway, they'll call up the Travel Forum (GO TRAVSIG) to check gasoline availability, road conditions and camping.

They can book a plane ticket to Hilo, Hawaii, or La Paz, Baja California Sur through any of CompuServe's three flight reservation services. The Astronomy (GO ASTROFORUM) and Photography (GO PHOTOFORUM) Forums will offer tips on observing and recording the event as well as suggested research projects that amateur astronomers can undertake on the big day.

> "One of the attractive things about astronomy is that it is still a field where amateurs can make important contributions," Rabe says. "There aren't

enough professional astronomers to spread out along the path of an eclipse and observe everything. By comparing observations from amateurs made in many different places, it might be possible to figure out exactly what causes shadow bands, for instance. For amateurs with more advanced equipment, coronal streamer photographs are a possibility. Astronomers are interested in knowing how fast these streamers move, and amateurs can take photographs that can be combined to make a sort of time-lapse 'movie' of coronal motion."

Astronomy Forum member Richard Wiesen started packing his gear in February 1989. "I made up my mind to see this one at least 10 years ago," he says. "People have to travel if they want to see one before their allotted time on earth runs out. Total eclipses don't come to your backyard but perhaps once in a lifetime."

Free-lance writer Maura Mackowski (76004,2243) is saving her pennies for the 2132 eclipse.

by Patricia Harris & David Lyon



Center founder connects oppressed with democracy: Schultz

Digitizing Democracy

For disenfranchized millions, Walker Ecumenical and an online link hold out hope for freedom.

The rambling Victorian manse in Newton, Mass., seems like all the other houses in this suburban neighborhood at the end of the Boston streetcar line. But visitors who climb the stairs to the front porch and

knock on the heavy wooden door must give a password before they enter. Among the retired missionaries living at the Walker Center for Ecumenical Exchange, there may also be victims of persecution who have sought political sanctuary.

Director Gordon Schultz half-apologizes for the cloak-and-dagger histrionics, but explains that the security need is real. Certain governments find advocates of non-violence and democracy so dangerous that they believe these people must be eliminated.

The mix of retired religious teachers and political exiles suggests some of the changes at the Walker Center in recent years. Since 1869, it has been a home for children of missionaries, a center for missionaries on furlough, and a home for retired missionaries. Under Schultz's

stewardship, it has become a study center for global issues, concerned as much with matters of this world as of the next. This new direction involves arranging discussions among international scholars and political leaders, using information-age technology to provide unbiased news about current events, and educating American religious, school and civic groups about world affairs.

The Walker Center found itself perfectly situated to play a key role in world events.

In May 1989, when Chinese students

were demonstrating for a more open society in Tiananmen Square, Schultz recalled the excitement of his own activist days in the '60s. The Lutheran minister and former missionary offered the center's phone lines to Boston-area Chinese students. For two weeks they spoke with family and friends, getting first-hand accounts of speeches and demonstrations. Then came June 3.

"Our phone began ringing off the hook," Schultz recalls. In Beijing, troops moved into Tiananmen Square to crush the student protests. Desperate eyewitnesses called Walker—a phone number that had passed from person to person in Tiananmen Square. "Tell the world what has happened here," the callers begged. "Don't let us be forgotten."

The students answering the phones at Walker taped the calls. Then they called other cities in China to spread the word because all inter-city phone lines were down.

"No one believed the army would do such a terrible thing," Schultz says. "Then they would play the tapes, and there would be stunned silence."

What began as a "talk line" for expatriates metamorphosed into the China Information Center, under the wing of the Walker Center. This summer, Schultz hopes to establish a similar information center on Zaire. "This is something we can do: serve as a springboard for people of these nations to spread their message to the world," he says.

Not all Walker programs are as dramatic as bearing witness to history. The "Paths to Democracy" program is a cornerstone of Walker activities. Headed by Andrei Sakharov until his death, the program assembles democracy movement leaders from several Eastern European countries, Chile, South Africa, Zaire, Burma, China, the Philippines

PERSONAL BUSINESS

CM's Personal Business Credo:

It's our business to help you achieve your personal best. Wise consumer. Time watcher. Intricate researcher. Savvy politico. Grown-up kid. You've got the need, we've got the gear; it's all right here.

Inside the Home of the Brave

Pet Problem Solvers, page 40 and the United States to discuss what values are needed to make democracy work.

"It's a crucial question for these nations,"

Schultz says. "When a country no longer relies on coercion or ideology, it has to rely on the people. It's important

here as well; when less than half of eligible Americans vote, democracy is in trouble."

Dealing with international figures is heady stuff, but Schultz brings those discussions down to earth with his lectures and organizing activities in churches and civic forums in the United States. His enthusiasm for teaching flares when he discusses these grassroots sessions.

Americans do not want to be just bystanders in the changes sweeping the world, he believes. "We work with grassroots community groups to help them understand the complexity of the world and how the US role is changing," he explains. "I'm not a romantic. I don't think the American people will necessarily do 'the right thing' if they have all the information, but they'll never do it if they don't."

To gather and disseminate information, Walker relies on modern technology. Schultz admits he used to rail against technology as an agent of repression, "but we couldn't function without it now," he says, waving his

hand around an office that blinks and beeps. "For people with courage and imagination, technology can be an im-

portant tool."

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When Tiananmen Square happened, a few of those people came forward to help. A telecommunications firm wired the center for extra phones. A local alarm company provided a security system. Computer dealers provided equipment for the rapidly expanding database on China. CompuServe provided an account (76004,2456).

"CompuServe helped us set up a bulletin board," Schultz recalls, "and we were inundated. Now we use electronic mail constantly to stay in touch with other organizations across North America. This summer I hope we can do some serious conferencing on global issues."

Money-saving services are also important. Schultz shops for equipment and supplies in The Electronic Mall (GO MALL) and uses Eaasy Sabre (GO SABRE) to book travel arrangements—a steady need for a group

involved with issues all over the globe.

When Walker needed to send a Chinese student leader from Boston to Paris, Schultz blanched when he saw the cost of the "lowest price" ticket provided by a travel agent. "It was the first time we used Eaasy Sabre. Within 10 minutes, we had 15 fares at half that price," Schultz says, wiping an imaginary bead of sweat from his brow.

The lifeline for Walker, however, is the Executive News Service (GO ENS). The center keeps several clipping folders on global hot spots. Reading major newspapers wouldn't turn up as much information, since many papers either ignore dispatches from non-European countries or run them in brief form.

"We monitor all the major wires," Schultz says. "The important story could be financial. A bank makes a decision that's crucial or strategic to a country of interest. It's amazing—we can cover many parts of the world and keep absolutely up to date on what's happening.

"That is simply invaluable," says Schultz, a man who knows the worth of accurate information.

Patricia Harris and David Lyon are free-lance writers based in Cambridge, Mass.

Information Center a Lifeline to China

"The most impressive thing about America is its high technology, you know?" says Shen Tong, an affable and charismatic college student and leader of the Chinese democracy movement. His base in the United States is the Democracy for China Fund (DCF), a group under the umbrella of the Walker Center for Ecumenical Exchange.

High technology is critical to Shen's role as leader in exile and to Walker's mission to keep information flowing in and out of China. Set up just before the Tiananmen Square massacre, Walker became the world's conduit for reliable information on the democracy movement in China—and on the government's crackdown. From Beijing, Walker was Shen's link to the world; now it is his lifeline to China.

Shen co-founded the Dialogue Delegation, a group of student leaders who were negotiating with the government when the hammer fell on Tiananmen Square. Escaping the army, he went into hiding, even as "wanted" posters with his face went up all over China. But Shen was one of the fortunate student leaders. He had been accepted to study biology at Brandeis University in Waltham, Mass., and had a valid passport, exit visa and plane ticket to

the United States. When his departure date came, he emerged from hiding, boarded his flight and escaped.

"It was quite simple," he explains. "But the preparations were very hard. I went from back door to back door." At great personal risk, sympathizers whisked him through the official checkpoints and onto the plane.

Shen leads a dual life—as a determined college student who cancels meetings and puts off phone calls to get a paper in on time, and as an external symbol of the democracy struggle still smoldering in China. His English has become fluent, and he earns up to \$10,000 a month giving speeches for the movement.

"The conditions that created the movement are still there," he says somberly. "The fuel is in the people. We are trying to provide a spark."

Each day he spends time at DCF, where he can read Executive News Service clippings on China and related subjects, and where he helps hatch plans to relay that information back to a country where the government controls the media.

One of DCF's key tools is the fax machine. The Walker Center acquired phone numbers for 30,000 fax machines in China and used those connections to send photos

of the Tiananmen Square massacre. In November, Shen and others assembled a fake *People's Daily* and faxed it across China.

Wire service reports aren't Shen's only news about China. High-tech connections also keep him in touch with the democracy movement. DCF smuggled a computer and modem into China, where they are constantly moved. "It allows us to communicate safely and very quickly," Shen says. Sending long text files in a form the government cannot intercept is essential to keeping the movement alive.

Shen travels around the world to meet other democracy leaders. In March, he went to Czechoslovakia to meet Civic Forum leaders and President Vaclav Havel. The trip had two purposes: to show people inside China that others support their struggle and to learn the ways of democracy.

"For thousands of years we have destroyed our empires and then not known what we wanted, so we built new empires," he says. "It's important for free intellectuals like me to learn how to practice democracy, how to compromise and live in the democratic process. We must search out a path for China after the fall of the Beijing empire."

-PH & DL

A Forum for Fido, Fluffy and You



Pet lover, Humane Society employee and Pets/Animals Forum sysop: Arends

A Pets/Animals Forum is here to help you with your critters.

Pets are an important part of our lives. But why? What we perceive to be their "unconditional love" may just be their crafty way of asking "Hey, when do we eat?" or a kind of sucking up to the boss. Maybe it's our instinct to care for the helpless and dependent.

There's no *practical* reason for sheltering animals—their skills as hunters and mousers fell out of use some time ago.

Yet we keep pets, and treat them like—in some cases better than—family. We celebrate their stupid tricks, worry when they take ill, mourn at their passing. Most of all, we *love* to talk about them. Well, pet-o-philes, the dog has finally had his day on CompuServe. In the new Pets/Animals Forum (GO PETS), you can tell the world of Fido's and Fluffy's antics, as well as fetch valuable veterinary and training advice.

The forum, begun last March, has grown in cat-like leaps and bounds, with more than 2,000 new messages scrolling on each week. That's no surprise to Forum Administrator Linda Arends, who is also director of community relations for the Capital Area Humane Society in Columbus, Ohio. "People in the United States are very pet-oriented," she says. "In the forum, there are a lot of different experiences, many types of animals that people are involved with, and many levels of expertise. It's very conversational."

Look Out Garfield, It's 'Cheeks'!

Animal stories both strange and true can be found in the Pets/Animals Forum (try Library 9, "Favorite Pet Stories"), such as the prairie dogs who escaped from the new zoo exhibit that didn't have a concrete floor, or the man who survived a tractor accident in desert conditions by sucking the water out of his Airedale's fur! But by far the best story online has been the ongoing saga of "Cheeks," whom sysop Linda Arends refers to as "the unofficial mascot of the forum."

Cheeks is the 35-pound grey-and-white British Shorthair feline owned by D. J. Curtiss, a Fish/Aquaria Forum staffer and regular in the Pets Forum. "He's a lap cat," says Curtiss, "which can be disconcerting when you realize he weighs more than the average beagle. My grandmother calls him "The King of England'." Don't get the im-

pression he's fat, however: "Every vet who's seen him has told me he's just big. If he were human, he'd be a fullback on a football team"

Cheeks' hobbies are devouring quanti-



Feline 'fullback': Cheeks

ties of Goldfish crackers, staring down visitors who express an obvious dislike for cats, and purring loud enough to vibrate whatever piece of furniture he occupies. Curtiss adopted him as a kitten 10 years ago during a trip to visit friends in Illinois: "Cheeks was trying to eat a frog when I noticed him. It didn't taste good and he had foam in his mouth as proof. It should have warned me of his potential appetite."

Since then Cheeks has tripled Curtiss' cat food bill (that is, he eats three times what her two other cats eat) and has made vacuuming her home a bigger chore than it already was. According to Curtiss, "He likes to lay on top of the cleaner and ride it around. Now, is that a weird cat or what?"

-CG

Which means you're as likely to find a member of the first pet forum, the Aquaria/Fish Forum (GO FISHNET), as someone from a software support or professional forum. It makes for a unique and occasionally volatile mix: Discussion threads range from the silly to the dead serious. Heated exchanges have arisen over topics such as the declawing of cats, breeding and training methods, and the conservation of wild bird species.

"We accept a great deal of responsibility bringing pets into our lives," says Arends. "Sometimes we live up to that responsibility, and sometimes we don't. In the forum, there's concern for animals across the board, wanting to do the best for them, and that concern will come out in many ways."

Sections in the forum specifically deal with dogs, cats, birds, horses, reptiles and other exotic pets; your "favorite pet story"; and a trading post, where members can ask questions about locating certain animals or pet supplies, or post other want-ad announcements.

There are also several special support areas in the forum. The "Behavior and Train-

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ing" Section (Message Section 2) is administered by Dr. David Tuber, an Ohio State University psychology profes-

sor and animal behavior specialist, with the hope of helping pet owners decipher their pets' mystifying behavior and offering general advice on how to correctly alter the undesirable conduct.

For 20 years Tuber has been studying the human-pet bond, applying animal psychological research, meant to yield human behavioral theories, to its most direct benefactor: animals.

But he is not a "pet shrink." "They carry a strong human clinical orientation, looking at how to change the owner's behavior," Tuber says. The problem behind your "bad dog" could be blatant owner insensitivity, but more often it's simply stress caused by certain household situations (such as being left alone), or even a genetic predisposition toward a particular fear or anxiety. Translation: some dogs are born nervous.

"What I do in my therapy and online sessions is help owners teach the animal new behaviors where stress existed before. Most people can't change their lifestyle much, but we can teach them to give the pet better-quality attention, and to have the perspective that the animal isn't doing something out of hostility," says Tuber. "The owner then

knows how to use rewards, not punishments, to teach the dog the desired behavior."

Another forum area, "Pet Loss Support" (Message Section 10), is meant to be a shoulder to cry on for those saddened by the death of a pet and perplexed by people's indifference. Arends believes that those going through a grieving process need to realize that it has no time limits for each "stage," and that co-workers and others probably won't understand.

"Grief from a pet's death is not something that is very much validated as a real grief," she says. "It's something to be gotten over very quickly. People ask, 'Why don't you just get another one?' or 'You've got two other cats, why are you so upset?' But you may not feel like going to work or eating. You may find that you are crying all the time, or that you can't concentrate on school. Here you can talk to others and feel that you're normal, that your grief is real and that someone else understands and accepts it."

The "Ask-a-Vet" section (Message Section 7) is decribed by Dr. John Weigandt, one of several practicing veterinarians monitoring the forum, as "the biggest office I have ever

occupied—but it's a little hard to see the patients." Ask-a-Vet serves not as a means for diagnosing illness (obviously, an

online message can't replace a physical examination), but as a source of information, a limited second opinion, and even as a sounding board for upset or bewildered owners. "We might be able to offer insights as to what your critter's condition might indicate, and maybe help you decide when you really do need to see your vet," says Weigandt.

Arends hopes that with all the communication between forum members, the ultimate benefit will be improved communication between people and animals. The burden is with us, as we have removed them from their natural environments, put them into our society and given them a set of rules that we don't always let them know about.

"If we can accept them as other creatures we can get to know," she says, "not as diminutive humans, not as fuzzy wind-up toys, not as something we own, not as something we want them to be—then we can work out this relationship. They can live in our world and behave properly, and we can live in their world a little bit and understand them. If you do this, you'll be a much better pet owner."

 ${\it Christopher~Galvin~is~an~assistant~editor~of~CompuServe~Magazine}.$

Meet the Sysop Linda Arends

Occupation:

Director of Community Relations, Capital Area Humane Society, Columbus, Ohio

Pets

Two dogs (Katie and Chloe), two cats (Becky and Velcro. "He jumps on your pant leg and hangs on."), all adopted from the Society.

On a pet's appropriateness:

"Sometimes we get pets for the wrong reason: You're supposed to have a family dog, or you get a certain breed because it suggests status or has a look you like. Don't put that kind of stress on the animal. Consider your lifestyle, financial situation and how much time you have for it."

On pet behavior:

"They interpret our body language a hundred times better than we interpret theirs. The cat doesn't think as it's scratching the furniture, 'I didn't appreciate being shoved off the bed, so I'll shred this couch.' They can't do that kind of reasoning. We swear they do, but it's easy to think that because it would be our motive. They're doing it because it's a natural instinct to sharpen their claws."

On being an early pet lover:

"I was the neighborhood kid who brought everything home; nothing was too weird. Luckily, I had parents who said, 'Sure, why not?' I'm old enough to remember when you could go to the local five-and-dime and buy purple and orange chicks. I brought home two chicks that weren't dyed, and they grew up to become house pets, running around the place like cats. They lived in the living room and watched TV with us. It all somehow seemed perfectly natural."

-CG

Enhance

Manipulates and Retouches Grayscale, Color Images

MicroFrontier Inc.

7650 Hickman Rd. Des Moines, IA 50322 515/270-8109 Fax: 515/278-6828

Computers: Macintosh II family.

Operating Systems: System 6.0.3 or later with 32-Bit Color QuickDraw.

Media: Supplied on three 800K diskettes (one System 6.0.4 disk, one program disk and one image sample disk); hard disk required.

Copy Protection: None.

Required Peripherals: 8-bit video card capable of displaying 256 colors or shades of gray.

Other Requirements: Minimum 2MB memory; larger memory is recommended.

Optional Items: None.

System used for test: 5MB Macintosh IIcx with FDHD diskette drive, 40MB hard disk, Sysgen MAXI RD45 cartridge drive, AppleColor High-Resolution RGB Monitor, 256-color Macintosh II Video Card, Qume Crystal-Print Publisher laser printer, Image Systems Technology Image Capture 2 board, Digital Vision ComputerEyes/Pro board and Kodak SV5035 Slide/Video Transfer Unit; running System 6.0.4, Finder 6.1.4 and 32-Bit Color QuickDraw.

List Price: \$375

Although color-image enhancement software is gaining acceptance among Macintosh II users, grayscale processing remains important in desktop publishing and other pursuits. Since most computer-published documents are printed without color, the need for effective grayscale image manipulation isn't likely to disappear.

There are several software packages for grayscale image manipulation, each with strengths and weaknesses. A powerful contender is MicroFrontier's Enhance (version 1.0.1). If you were to combine the best features from Silicon Beach Software's Digital Darkroom, Letraset's ImageStudio and Blue Solution's PhotoPress, the result probably would be much like Enhance, which offers a wide range of tools, features and controls that operate at impressive speeds. Of course, the trade-off is increased complexity, and Enhance takes more time than its competitors to learn and to apply correctly.

Intended mainly for 256-level grayscale images from scanners and digitizers, Enhance does make some allowances for 256 color images. Like Photopress, Enhance can display 8-bit PICT and TIFF files in color and can draw, paint, spray and fill with colors. Digital Darkroom and ImageStudio

don't display or manipulate color at all.

Enhance runs under 32-bit Color QuickDraw and can read 32-bit color PICT files such as those output by Image Systems Technology's Image Capture 2 video digitizer. But it reads 32-bit PICTs as grayscales instead of color and cannot read 24-bit RGB-color TIFF files at all.

Computers having certain video digitizers (including an Image Capture 2 card but not a ComputerEyes card) activate a special Enhance "video" menu that can capture images directly. That menu isn't documented in the manual, so users seeing it should contact MicroFrontier for additional documentation. Users without a recognized digitizer simply won't see a video menu.

Enhance can open as many as four images simultaneously in windows, simplifying the task of cutting and pasting from one to another. It also allows up to three image buffers per window to hold edited variations of each main image, and up to five view windows may be opened for each image file and assigned to buffers. The program can display two buffers in split-screen modes within view windows, so it's easy to compare results of manipulations right on the screen.

A variety of tools, effects, filters, analytical graphs and the like are provided. Included are versatile scaling, rotation, slanting, stretching and perspective distortions. Perspective distortions, though not needed often, provide some truly interesting special effects.

Most of the more than 70 filter variations provided are usable only for gray-scales, but the important "despeckle" filter for cleaning up scanning or digitizing imperfections also works on color images. All filters are surprisingly fast, whether sharpening, blurring, detailing, edging, shadowing, embossing or performing other operations. A particularly useful "gamma brightness" filter optimizes grayscale brightness and contrast for good image appearance. Automatic gamma brightness adjustment often was enough to make an image look good without manual brightness or contrast adjustments through sliders or a graph.

Color-to-grayscale conversion, done by switching from "document" to "256 grays" palettes, was somewhat weak. The results weren't always pleasing, and converted grayscales seemed ragged or coarse. They needed extensive manipulation with other filters before being acceptable, so it's best to start

with a grayscale input file whenever possible.

Many Enhance functions rely on a fairly complicated but powerful masking function. It basically enables or disables selected colors or grays for various operations. For example, masking can protect selected image areas from alteration during filtering or painting. Masking also enables special pasting effects. Image pasting may be done in normal, blended, additive or subtractive modes, with control over the relative percentages of original and pasted images used. Capable as it is, masking takes practice, and the manual's lack of a thorough tutorial complicates learning to use this and other capabilities.

Enhance tools usually operate conventionally, but some have modifiers that extend their functions. For example, marquee selection can be set for rectangular, circular or polygonal shapes. Lasso selection can be set for normal, expanding or shrinking operation. There's no "magic wand" selector, but a powerful thresholding filter partially compensates in chores such as changing gray levels.

Smudging, smoothing, lightening, darkening and gradient functions are selectable options for the smudge tool (fingertip), thereby allowing seamless retouching and edge smoothing.

With these and many more features, Enhance is an admirable program that does just about anything other grayscale enhancement programs do. In some areas, Enhance does more. But since Enhance is more complex than other programs, users who need only "quick and dirty" operations such as despeckling scanned images may prefer other programs.

Reviewed by Ernest E. Mau

Ernest E. Mau, a full-time, free-lance writer and Compu-Serve Magazine reviews editor, is based in Aurora, Colo. He is the author of several books and more than 300 articles on microcomputer products and applications. WealthBuilder by Money Magazine:

Builds Your Nestegg to Financial Security

Reality Technologies Inc.

3624 Market St., Philadelphia, PA 19104, 215/387-6055 or 800/346-2024, Fax: 215/387-2179

Computer: IBM PC, PC-XT, PC-AT, PS/2 and compatibles.

Operating Systems: PC-DOS or MS-DOS version 2.0 or higher.

Media: Supplied on 5.25-inch and 3.5-inch diskettes; requires hard disk with 4MB of free space.

Copy Protection: None.
Required Peripherals: None.

Other Requirements: Minimum 512K RAM.

Optional items: Will run in high-resolution mode with VGA or EGA graphics card; otherwise, runs in low-resolution mode

System used for test: Northgate 80386/20-MHz computer with 4MB RAM, VGA video adapter and monitor, 80MB SCSI hard drive and controller, 5.25-inch and 3.5-inch diskette drives, Okidata 293 printer and LaserJet Series II printer; running PC-DOS 4.01

List Price: \$249.95

WealthBuilder (version 1.0), a joint project between Reality Technologies and *Money* magazine, is elaborate financial planning and investment strategy software. It will help organize financial records, set goals for wealth-building or retirement and select a portfolio suited to meeting individual objectives.

The first time you load WealthBuilder, you'll be in the Fact Finder module. Be prepared to answer a set of detailed questions about your personal finances. By the time you're finished, Fact Finder may well know more about your economic status than anyone else ever did, including you. The questions are designed to lay your financial soul bare: who you are, what you own, what you owe and what you want to do with your financial future. Later, you'll be asked what degree of risk you are willing to assume to meet your goals.

All this indiscreet probing is necessary for WealthBuilder to put its considerable talents to work in preparing a program that will guide important financial decisions. Despite its complex makeup (it takes 10-20 minutes to install and occupies nearly 4MB on a hard disk), the program is easy to use.

WealthBuilder is quite different from most financial packages on the market. It doesn't balance a checkbook or keep track of spending. Its objective is to help plan and execute a long-term investment strategy tailored to specific needs and tolerance for risk.

WealthBuilder isn't suited to someone just getting a fiscal start and still trying to eke out enough from the household budget for an occasional dinner out. It is aimed primarily at the person or family that has already socked away a reasonable amount and is looking for guidance on building that nest egg into complete financial security.

When you've given Fact Finder all the information it needs, you'll have the opportunity to use a nested set of screens to tell the Objectives module about your financial goals.

Once you've told Objectives where you'd like to go financially, the Strategies section will help build a solid program for reaching those objectives. It's here that you'll learn about such long-range costs as college for the kids (be prepared for a rude shock) and how much you'll need to retire comfortably, with automatic factoring in of the effects of inflation—does a million dollars or more scare you?

Once you've provided the information WealthBuilder needs, the program creates an asset-allocation model that takes into consideration your income, present assets and the degree of risk you are willing to assume. It makes specific recommendations for allocating present assets into such investments as stocks, bonds, cash reserves and precious metals.

If your computer system has EGA or VGA graphics, the program automatically runs in graphics mode. This lets it display some impressive graphics to illustrate such things as diversification of your portfolio and effects of time and inflation on present values. No skill is needed to produce the charts; WealthBuilder creates them automatically with just a keystroke or two. If you want to ask the program specific questions about such future obligations as college for the kids or how much money you'll need to retire comfortably at several different ages, the program will quickly draw up a snazzy graph to help illustrate its answers.

Many WealthBuilder recommendations are based on information in its database on hundreds of equity, bond and precious metal mutual funds. Up-to-date information on about 400 funds is supplied with the program. An optional quarterly update brings that number up to about 1,400 and sells for

\$99.95 per year (four updates).

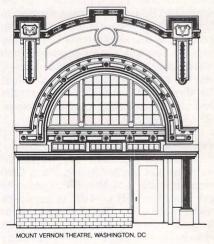
One drawback that I see is Wealth-Builder's reliance on mutual funds for investment recommendations. However, version 1.1, which should be available by the time you read this, will shore up this weakness. According to the publisher, the new version will add 10 years of data on 4,000 individual stocks and 6,000 bonds from Standard & Poor's. Other enhancements among a total of eight are a full-fledged portfolio manager and new filtering and sorting capabilities to make it easier to analyze securities of interest.

Obviously this is not an inexpensive package. With an outlay of \$249.95 up front and an annual update tab of a hundred bucks (worth it), WealthBuilder will begin by making you just a bit poorer. However, for the person who has a few dollars to invest and lacks the savvy to maneuver through the potholes of Wall Street, it will be money well spent.

Reviewed by William J. Lynott

William J. Lynott is president of W.J. Lynott Associates, management consultants specializing in personal computer applications for small business. He has been a frequent contributor of CompuServe Magazine reviews for many years.

PRESERVATION PLAN ON IT



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Reviews Online

Following are summaries of hardware and software reviews available for reading this month in *Online Today*. To read the complete reviews, type GO OLT-200. For additional *CompuServe Magazine/Online Today* reviews of the past two years, refer to the keyword-searchable buyer's guide in Library 5 of the *Online Today* Forum (GO OLTFORUM).

Hardware



Kodak SV6510 Color Video Printer

Eastman Kodak's SV6510 Color Video Printer interfaces to Macintosh II and IBM-compatible computers. It makes photoquality 4- by 5-inch color or black-and-white prints from NTSC, RGB or digital signals. It also can be a video frame grabber and digitizer. Reviewer Ernest Mau says the unit is versatile, turns out impressive prints and generally performs well. But controlling image appearance can be tricky, and applications may be limited by the small print size. *GO OLT-5780*

Videolmage 1000 Classic

Scion Image Systems' VideoImage 1000 Classic for Macintosh II computers can use external NTSC-to-RGB signal conversion to digitize color or grayscale images from consumer video devices. Reviewer Ernest Mau finds the device better for grayscales than color because grayscales are grabbed in real time but color images are not. He also finds that direct RGB inputs yield better results than signals converted from NTSC sources. *GO OLT-5790*

Hurricane 500 Accelerator

Imtronics's Hurricane 500 accelerator board provides Amiga 500 and Amiga 2000 computers with a 14-MHz 68020 processor and room for 1MB to 4MB of expansion memory. Reviewer Cheryl Peterson finds the product reasonably easy to install, even when having to first fix an incompatibility with a SupraDrive WordSync interface. She also finds that speed increases are less than advertised, but respectable nevertheless. The product seems particularly useful in computation-intensive applications and in multitasking environments. GO OLT-5800

Software

Business Plan Toolkit

Palo Alto Software's Business Plan Toolkit takes the drudgery out of preparing business plans using Macintosh or IBM-compatible computers. Reviewer Anthony Watkins finds this software does a good job of creating a road map for business success, and predesigned templates provided in various formats are readily adapted to various business needs. He also finds that a companion Sales and Market Forecasting Toolkit is an effective way to apply standard methods to business forecasting. *GO OLT-5810*

UltraPaint

Deneba Software's UltraPaint is a multistyle graphics package for Macintosh computers. It smoothly integrates black-andwhite painting, color painting, object drawing, grayscale image enhancement and color-image enhancement in one program. Reviewer Ernest Mau doesn't think UltraPaint can outperform some other specialized and expensive graphics programs, but it satisfies routine, general-purpose graphics needs across a range of applications and can substitute for more costly packages when users aren't overly demanding. GO OLT-5820

Spelling Coach Professional

Deneba Software's Spelling Coach Professional is a versatile writing aid for most Macintosh word processors and desktop publishers. It combines full-featured spell checking with definition look-up, soft hyphenation, an online thesaurus and identification of common grammatical errors. Reviewer Ernest Mau says it operates smoothly and efficiently, but it accepts too many varietal spellings while not allowing a user to remove unwanted words from the dictionary when style and consistency are important considerations. GO OLT-5830

SpellCode

Laboratories' SpellCode for IBM-compatible computers is tailored for checking spellings within database, spreadsheet and program files. According to reviewer James Moran, SpellCode understands the syntax of languages such as BASIC and C, plus file structures for products such as dBase and Lotus 1-2-3. Moran finds no bothersome errors, says the program intercepts many varietal spellings and notes that it allows deletion of existing words from standard dictionaries. *GO OLT-5835*

Avagio

Unison World's Avagio is an affordable, mid-level desktop publisher for IBM- and Tandy-compatible computers. Reviewer Christy Brothers says it can't compete with top-level programs but offers some top-level features including good typographic control with flexible but easy page design. It also provides many features of both a word processor and a paint program, plus a large font library, true WYSIWYG display, fascinating graphics effects and the ability to import text and graphics. *GO OLT-5840*

WordPerfect 5.0 for OS/2 and WordPerfect 5.1 for DOS

Two new releases of the WordPerfect word processor for IBM compatibles are version 5.0 for OS/2 and version 5.1 for DOS. Reviewer James Moran examines both and says that the OS/2 version finally lets users of protected-mode microprocessors such as the 80386 access all their computer capabilities. Meanwhile, the DOS release is a substantial enhancement. The reviewer finds a few functional variations between the OS/2 and DOS releases, including a few that reflect OS/2 restrictions. GO OLT-5850

PreScript

Pan Overseas Computer's PreScript for 80286 or 80386 based IBM PC-AT compatible computers is TSR software that interprets and translates PostScript output into Hewlett-Packard PCL output that a Laser-Jet printer can understand. Reviewer William Lynott says the system looks, feels and acts much like a true PostScript system, but at a lower cost. Among other things, PreScript prints from within applications and provides WYSIWYG previewing before printing. GO OLT-5860

Diacom

Rinda Technologies' Diacom is a software and interface system for diagnosing problems in General Motors' automobiles having an electronic control module (ECM) to relay information to a computer connector. On IBM-compatible computers, it displays information such as battery voltage, coolant temperature, MAP/vacuum sensor voltage, and more, and it provides appropriate trouble codes. Reviewer Harry Green says the obvious market is in repair shops, but Diacom is also for do-it-yourselfers. *GO OLT-5880*

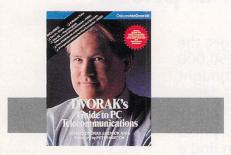
System Sleuth

Dariana Technology Group's System Sleuth is diagnostic software for IBM compatibles. According to reviewer James Moran, it can bring sanity to the job of configuring and troubleshooting a computer. Seven major diagnostic areas or "subsystems" provide detailed information, and at least three utilities are useful on systems with large capacity hard disks. Moran says all functions run smoothly and that the package should be useful to any computer user from novice to advanced. GO OLT-5890

Book Reviews

Online Book Reviews

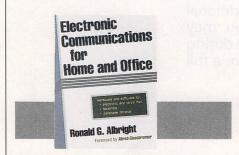
Following are summaries of book reviews available for reading this month in *Online Today*. To read the complete reviews, type GO OLT-240 at any CompuServe Information Service prompt.



Dvorak's Guide to PC Telecommunications

By John Dvorak and Nick Anis Osborne McGraw-Hill, 1990 1,053 pages, \$49.95 (softcover with disks)

This is the most comprehensive, best organized and certainly the biggest book ever written on PC telecommunications, says reviewer Franklyn Jones, who recommends it for everyone from the neophyte to the technical wizard. *GO OLT-5200*



Electronic Communications for Home and Office

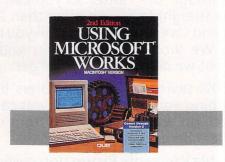
By Ronald G. Albright Chilton Book Co., 1989 256 pages, \$16.95 (softcover)

Designed for the burgeoning home business sector, this book clarifies the benefits of telecommunications, especially for those who find the technology too intimidating to master. Reviewer Paul A. Gilster praises the author for his ability to translate technical concepts into readily understandable prose. *GO OLT-5210*

1-2-3 QuickStart (Release 2.2)

Developed by Que Corp. Que Corp., 1989 200 pages, \$18.95 (softcover), \$24.95 (hardcover)

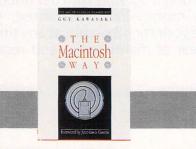
Written for the Lotus 1-2-3 beginner, this book is a successful departure from the usual format of spreadsheet instruction texts with its excellent use of graphics and illustrations. Reviewer William J. Lynott praises the text's design for providing a continuity that eases the reader through the complexities of spreadsheet basics. *GO OLT-5220*



Using Microsoft Works: Macintosh Version (Second Edition)

By Ron Mansfield Que Corp., 1989 480 pages, \$21.95 (softcover)

Praising it for its clarity and depth of coverage, reviewer Sharon Kahn says this is likely to be the best tutorial on Microsoft Works you'll ever read. *GO OLT-5230*



The Macintosh Way: The Art of Guerrilla Management

By Guy Kawasaki Scott, Foresman and Co. 1990 209 pages, \$19.95 (hardcover)

This is more than a book about the Macintosh, says reviewer Susan Katz. It is also a book about business, values, relationships and human caring. Calling it fun, straightforward and honest, she highly recommends it, especially to corporate executives (with or without a Mac!). *GO OLT-5240*

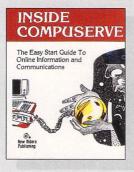


WordStar Complete

By Emil Flock, Jonathan Silverman and Arthur Silverman Scott, Foresman and Co., 1990 420 pages, \$21.95 (softcover)

Best used as a reference book to the giant and venerable WordStar 5.5, this text offers valuable information for both advanced and novice users. Reviewer Michael Naver recommends it to all WordStar users. *GO OLT-5250*

Get Inside CompuServe



Veteran users and new subscribers alike will find **Inside CompuServe** indispensable! Learn how to access information, read bulletin boards, go shopping, talk to other on-line users and more with this book/disk package. By Julie Anne Arca & Richard T. Lindstrom. From New Riders Publishing. \$29.95 **GO WB**

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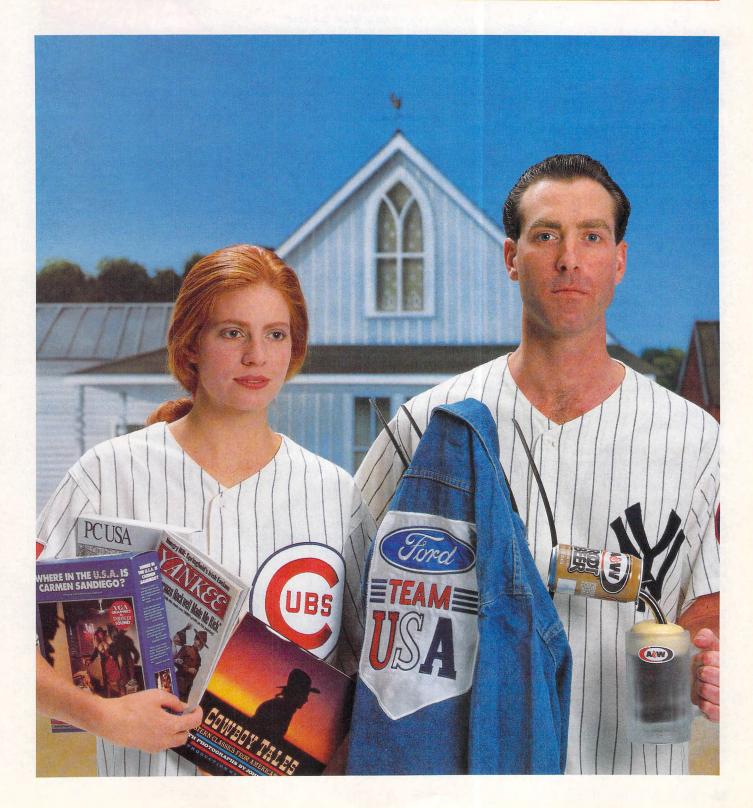


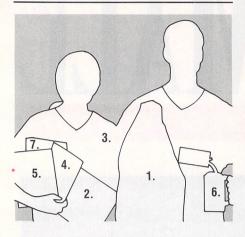
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GONAL WWD. FREE CONNECT JULY 24, 25, 26 SHOPPERS' GUIDE





The Electronic Mall salutes the US of A.

1. Ford Team USA embroidered jacket.

Constructed of stone-washed, easy-care denim in 100 percent cotton. Unisex sizes small, medium, large, extra-large and extra-extralarge (\$52.95). Also, Ford flag license plates, medallion light and Ford Team USA patches. From Ford Motor Co. GO FORD

2. Cowboy Tales: Classic Stories by American Masters.

Photographs by John Land Le Coq. The Wild West in all its glory in the words of some of America's greatest writers, including O. Henry, Mark Twain and Bret Harte. 22 full-color photos. From Penguin Books. GO PB \$12.95.

3. Nostalgic baseball jerseys.

Officially licensed by Major League Baseball, exact replicas of the home jerseys worn by three of the most famous teams in the game's history: 1919 Chicago White Sox, 1952 New York Yankees and 1969 Chicago Cubs. From Hammacher Schlemmer. GO HS \$179.95 each.

4. City/regional publications.

Save on subscriptions to a variety of regional and city publications, including *California*, *Yankee* and *Texas Monthly*.

From Publishers Clearing House. GO PUB

5. Where in the USA is Carmen San Diego? by Broderbund.

Carmen and her band ransack all 50 states. IBM, Apple II and Amiga (\$29), Commodore 64/128 (\$25) and Macintosh (\$32).

From Software Discounters of America. GO SDA

6. A frozen moment.

Handcrafted in Aspen, this A&W root beer frozen moment is 12 inches tall.

From Simon David. GO SIM \$42.50.

7. PC USA by Comwell Systems.

An integrated package of maps and stunning graphics combined with a wealth of geographic and demographic data. IBM only. From Computer Express. GO CE Sale price: \$43.50.

Join in The Mall's Summer Sale-a-bration. Summertime and the shopping is easy! Join in the Summer Sale-a-bration. Shop The

in the Summer Sale-a-bration. Shop The Mall's Summer Sidewalk Sales for super bargains on everything from software to sportswear, from computer kitsch to kitchen tools. Prices have been slashed on hundreds of items culled from across The Electronic Mall. GO MALL beginning Sunday, July 1, and save. Connect-time fees have been cut 50 percent in the Sidewalk Sales database, too.



Celebrate Christmas in July with **connect-free shopping on July 24, 25 and 26**. Connect-time fees are waived in every Mall store. Take a leisurely summertime stroll. Request free catalogs. Open charge applications. Go on a summer shopping spree from the air-conditioned comfort of your home.

Make toll-free reservations for hotels, motels and resorts.

From sea to shining sea, you can book a room with a view with the AT&T Toll-Free 800 Directory. Access the directory and select "Look Up an 800 Number." Then select "Product/Service Category Search" followed by "Hotels, Motels and Resorts." Consider the Cowboy Village Resort in Jackson, Wyo. ... Ramada London Bridge Resort in Lake Havasu City, Ariz. ... Driftin Sands Motel in Kill Devil Hills, N.C. Browse online for listings in all 50 states and the District of Columbia. Take a fingertip trip through thousands of toll-free listings online, including Marriott, Hilton and Howard Johnson. Remember, connect time is always free at AT&T Toll-Free 800 Directory.

Also online, toll-free numbers for some of America's leading tourist attractions, including Seaworld in Orlando, Fla., the Space Center in Alamogordo, N.M., Niagara Falls and Disneyland! Select "Travel" after selecting "Product/Service Category Search" for hundreds of travel-related toll-free numbers.

From AT&T Toll-Free 800 Directory. GO ATT

Free connect time every weekend at Walden Computer Books.

Flash! Connect time is **free** every weekend at Walden Computer Books. Shoppers are invited to browse without paying standard connect-time fees from 12:01 a.m. ET on Saturday through 11:59 p.m. ET on Sunday every weekend of the year. Check out new titles, hot off the press. Preorder upcoming releases. Choose from more than 500 best-selling computer classics selected by Walden Books' expert buyers. Walden Computer Books' online catalog features everything from beginner's guides to advanced applications, from spreadsheets to telecommunications. Remember, **free connect time** every weekend.

From Walden Computer Books. GO WB

GO 99 and find it fast!

Go online to order items pictured in *Go Mall* by typing 99 after any Mall merchant's GO command. For example, select an item featured on the cover, type the merchant's GO command followed by 99 (i.e., GO CE99) and zip to a list of the merchant's featured products. It's that easy.

Plus.

Read about **free-connect** weekends at your favorite Mall stores and new merchants in *Goings-On At A Glance* on page 58.

What the heck is "free connect"?

When you browse in participating merchants' online stores during **free-connect** weekends, you pay **no** standard CompuServe connect-time rates while shopping in that store. Although applicable communications surcharges *remain in effect*. An up-to-date list of free-connect weekends always can be found online in "Mall Headlines and Happenings."

Go Mall, published monthly in CompuServe Magazine, is a shoppers guide for The Electronic Mall, a service of CompuServe Incorporated. For more information call 614/457-8600.

Editors: Cindy Morgan, Denise Erwin Anderson and Pam Busch.
Art Director: Thom Misiak.
Design: Dorothy Hogan.

A. MacFRIENDS features savings, service.

Attention all Macintosh owners! MacFRIENDS, the world's largest Macintosh retailer, wants you to stop by and see its wide array of Macintosh-only products showcased online. Shop for computers, peripherals and accessories. Save a Macbundle on laser printers, monitors and more. Get more byte for your buck on hard drives with 40MB, 50MB, 100MB or 240MB. Check out MacFRIENDS' money-saving complete packages, too. The popular start-up package, for example, includes a Mac Plus CPU, 20MB hard drive, 2.5 RAM and printer. Regular retail price: \$3,300. MacFRIENDS' discount price? A mere \$1,998! Other featured packages include SE/30 Color Package, Pro-Color Business Package and Power User's Color Package. Need it fast? Overnight delivery by Airborne or Federal Express is available.

MacFRIENDS' service does not stop with the sale either. MacFRIENDS' QuicKor Kare extended service policy gives you twice the coverage at half the cost, including nation-wide overnight replacement on all Macintosh products and peripherals. If MacFRIENDS cannot solve your problem over the telephone today, you have another personal computer tomorrow! And free technical support is always only a keystroke away.

Whether buying or leasing, MacFRIENDS is your source for savings and service on Macintosh products. Request a free catalog, too. GO MF.

MacFRIENDS' grand-opening, free-connect week is July 7 to 15.

B. CompuServe Navigator 3.0.

The long-awaited CompuServe Navigator version 3.0 is here! Put your Macintosh on cruise control with the award-winning CompuServe Navigator, named the Best Telecommunications Product of 1989 by the Software Publishers Association. Order CompuServe Navigator at CompuServe Store, where connect time is always free. CompuServe Navigator enables you to automate all of your online sessions. Map your destinations and offline tasks and let CompuServe Navigator take over. CompuServe Navigator includes the following and more:

- Latest version of CompuServe's enhanced B protocol—30 percent faster than the XMODEM industry standard.
- Support of Graphics Interchange Format (GIF) graphics.
- Offline composition capabilities.
 From CompuServe Store. GO ORDER List price: \$99.95.

Introductory price: \$79.95.

C. VIDTEX for Atari and Commodore.

Order VIDTEX at CompuServe Store, where connect time is **free** every day.

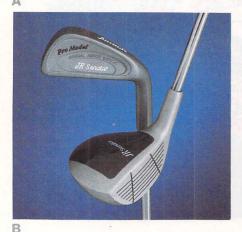
From CompuServe Store. GO ORDER List price: \$39.95.
Sale price: \$19.95.





BC









HOT TICKETS

New for the '90s.

A. *Miss Saigon* CD, original London cast. The team that brought *Les Miserables* to the stage is back with its latest triumph, *Miss Saigon*. A steamy romance largely set in the turbulent Saigon of 1975 prior to the US military pullout. Deluxe two-CD set includes complete lyrics and color photographs from the London production.

From Radio Doctors. GO RD **\$25.99.**

B. Junior Senator six-piece golf set. Start your youngster out right with Austad's Junior Senator woods and irons. Six-piece set includes three irons (5, 9 and putter), a No. 3 wood and a Junior golf bag with head cover. For ages 5 to 9, and 10 to 14. From Austad's Golf Shop. GO AU \$72.50.

C. Solid rock maple croquet set for four. Comes with its own sturdy, navy canvas bag stamped with the Brooks Brothers symbol. From Brooks Brothers. GO BR \$150.

FOR MEMBERS ONLY

Exceptional items.

D. Join the world's premier discount shopping service online.

Imagine saving 10 percent to 50 percent off manufacturers' suggested prices on more than 250,000 items. Brand-name items, including Canon, Pentax and Minolta cameras; Aiwa personal cassette recorders; Panasonic VHS camcorders; AT&T telephones; and televisions from Panasonic, Quasar and Zenith. Hot tickets include NEC, Nikon and Nintendo—all for less.

Join Shoppers Advantage Club online for super savings on everything from designer luggage to luxury linens, from heavy-duty chain saws to delicate, 14-karat gold chains—all at your fingertips. Everyone can browse Shoppers Advantage Club's huge database of super savings, but purchasing is for members only. Online sign-up enables you to start saving big today.

From Shoppers Advantage Club. GO SAC

Find It Fast

Type 99 after any Mall merchant's GO command (i.e., GO CE99), and zip to a list of the merchant's featured products.

A. CIC Polar Pacer.

Ultralarge display. Easy-to-use, wireless, heart-rate monitor with high and low alarms. Uses ECG chest-electrode sensing with LCD readout to a wristwatch display.

From Push Pedal Pull Fitness. GO PPP List price: \$149.

Sale price: \$135.

B. JCPenney Fall & Winter 1990 Catalog.

Hot off the press, it's the JCPenney Fall & Winter 1990 Catalog. Order your copy online for only \$5 and receive a \$5 merchandise certificate good toward your first purchase. Place any order totaling \$30 or more every six months with JCPenney and you will receive all three JCPenney catalogs (Spring & Summer, Fall & Winter and Christmas) free of charge. Get a jump on fall.

From JCPenney. GO JCP \$5

C. Regatta jackets.

Pictured here, royal, red, yellow and green fun stripes on a white cotton Regatta jacket. Available in small, medium, large, extra-large and extra-extra-large. Also, Brooks Brothers' exclusive multipanel hooded cotton Regatta jacket available in small, medium, large and extra-large.

From Brooks Brothers. GO BR **\$95 each.**

D. Fabulous Thunderbirds jewelry.

The classic Indian symbol that epitomizes Santa Fe style. Three color styles to choose from: red with dots; blue with clouds and lightning; and purple and blue sunset. Pin (\$10), bolo tie (\$15) and earrings (\$12). From Artwear/Outwest. GO AO

E. \$40 off Mega Watchman. TM

The miniature TV/radio entertainment center from Sony. A black-and-white TV with a 4.5-inch screen presents a bright, high-contrast picture. Built-in AM/FM radio with topmounted 4-inch speaker is included. Uses eight D batteries (not included) or AC.

From Spiegel. GO SGL List price: \$169. Sale price: \$129.

F. Pet life vest.

Helps dogs to float and swim without tiring. Small or medium sizes (\$21.99). Also, pet safety seat belt, pet traveler car seat, Kennel Cab II crate, dog trolleys and nylon harnessleashes for your ferret!

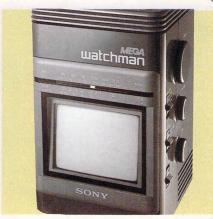
From Tall Tails. GO TT





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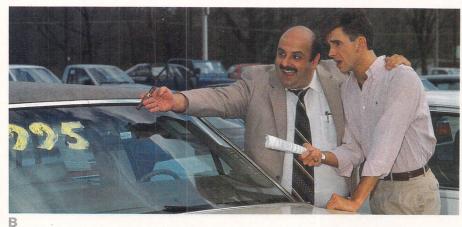






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A. 1991 Mercury Tracer.

Discover the all-new line of compact cars from Ford Motor Co. Pictured here, the Mercury Tracer Wagon, a stylish way to put it all behind you. Although a wagon may carry many boxes, it does not have to look like one. For more information, visit the Ford Electronic Showroom.

From Ford Motor Co. GO FORD

B. Used car-buying made easy.

Get the upper hand in buying a used car. Accurate, current wholesale and retail prices for used cars from 1978 to present. Order online and receive your quote via CompuServe Mail within 24 hours. From Used Car Price Guide. GO UC

\$5.95 each report.

C. Nutrition Express cleaning concentrates. Completely biodegradable, USDA-approved, non-phosphate cleaning concentrates. Brite automatic dishwasher powder (10 pounds, \$22.50), Sunshine dishwashing concentrate (1 gallon, \$19), Belle liquid hand soap (1 gallon, \$21), Matrix liquid laundry concentrate (1 gallon, \$19.25), Sparkle all-surface cleaner (1 gallon, \$16) and more. All products carry a 30-day, money-back guarantee. From Prevention Systems. GO PS

D. The HomeSafe® radon test by Waterpik. Test canister is exposed for four days, then returned to the lab in a special postage-free envelope. Receive lab results in about 24

hours. Includes complete lab processing. From Court Pharmacy. GO RX \$19.99.

E. The really creamy yogurt cheese funnel. Turns yogurt into a healthful, low-fat cream cheese. The secret? A microsized mesh lining that selectively removes the whey from the yogurt, creating high-flavor and low-fat cream cheese with 90 percent less fat and 66 percent fewer calories! Instructions and recipes included.

From The Chef's Catalog. GO CC \$9.99.

Get an edge on new car dealers.

Become an educated consumer with an Auto-Quote. Provides a detailed direct comparison of auto dealers' suggested retail and wholesale prices for all domestic and imported vehicles sold in the United States. Delivered via CompuServe Mail within six hours of receipt! Additional quantity discounts apply. From Autoquot-R. GO AQ \$14 each or three for \$38.

The recycler's aluminum can crusher.

This wall-mounted can crusher reduces 12and 16-ounce aluminum cans to 1.0625-inch thick, allowing you to put about 4.5 times as many cans in a single garbage bag. Made of heavy gauge steel.

From Hammacher Schlemmer. GO HS

A. My Beach Adventure.

Imagine your child's delight in discovering that he or she is the main character in the book you are reading! In My Beach Adventure, your child spends a fun-filled day at the beach building sand castles, sailing, surfing, fishing and watching sea gulls. You supply pertinent information about your child and Create-A-Book personalizes it. Other personalized adventures available, too, including My Space Adventure, My Dinosaur Adventure and My Fishing Adventure.

From Create-A-Book. GO CK \$13.95 each.

B. Download a CheckFree demo for the IBM or Macintosh

PC Magazine (Jan. 16, 1990) described CheckFree: "If you really would like a glimpse at how tomorrow-computing will change your life, forget OS/2, the Presentation Manager and the 486. The CheckFree electronic bill-paying service belongs to that rare class of products that is forward-looking, universally useful and available today." CheckFree invites members to download a free demonstration (standard connect-time fees apply) of this revolutionary software program. Discover how simple bill-paying can be. Order the complete CheckFree package online, too. Available for the IBM and Macintosh.

From CheckFree. GO CF Only \$29.95.

C. Revolution '76 by Britannica.

Take America's destiny in your hands with this dynamic simulation of political, economic and military strategies. Overthrowing a government takes more than military strength and strategy. Keep your outnumbered armies united and prevent them from falling under another nation's rule. Lay the groundwork for a new nation and set the tone of society for generations to come. Recipient of *inCider Magazine*'s Editors Choice award. Apple Ilgs only.

From CDA Computer Sales. GO CDA \$32

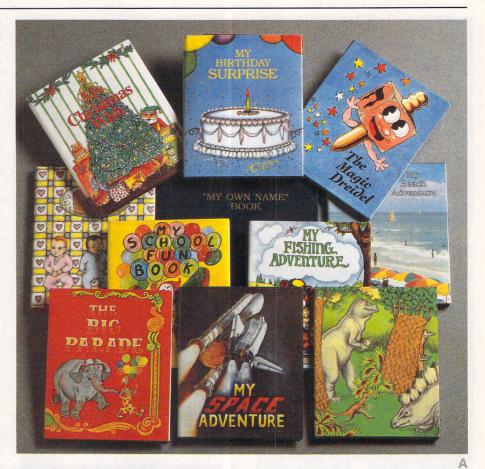
D. Strike Zone by Melbourne House.

Orel Hershiser and Melbourne House team up to bring you this No. 1 baseball arcade hit. Take Hershiser's place on the mound and blister that horsehide over the plate. Control the fastball, slider or sinker. Check game statistics and more. IBM only.

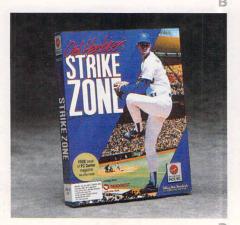
From Software Discounters of America. GO SDA **\$13.**

E. Art Gallery: American History by Unison World Software.

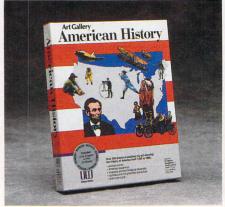
Contains more than 300 graphics, starting with Columbus sailing the ocean and ending with the launch of the spaceship Columbia. Covers nearly 500 years of people, places and events in America's past. IBM only. From Computer Express. GO CE \$34.97.



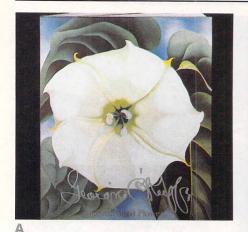


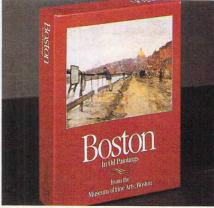


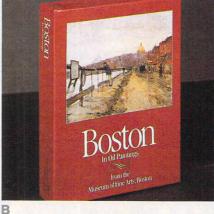




Personal Property and Personal Personal















A.B. Georgia O'Keeffe: One Hundred Flowers.

A lavish volume commemorating the centennial anniversary of Georgia O'Keeffe's birth. Exactly 100 of her magnificent and provocative flower paintings collected in a full-color, oversized edition. Cloth, 160 pages. Also, note cards: Georgia O'Keeffe, American Masters of Impressionism, Winslow Homer, Boston in Prints and Oil Paintings (\$9.95 to \$16.95). Member discounts.

From Museum of Fine Arts, Boston, GO FA Museum price: \$79.95. Members: \$71.95.

C. Country * USA.

GO TL

The best country music collection ever released. Each CD, double-length cassette or two-album set features 24 original hits by the original artists, digitally remastered for the best country sound short of a live honky-tonk. Stroll year by year down those lonesome country lanes. Begin with 1961—yours to audition for 10 days with no obligation to buy! Patsy Cline's I Fall to Pieces, Tex Ritter's I Dreamed of a Hillbilly Heaven, Leroy Van Dyke's Walk On By, Jimmy Dean's Big Bad John and 20 other classic recordings delivered directly to your door. Complete club details online. CD (\$16.99) and double-length cassette or two-album set (\$14.99). From Time-Life Books, Music and Videos.

D. CD racks and carrying cases.

Carrying cases for on the road from Case Logic, 30-CD capacity. Solid oak racks for the home from Laning, 32-CD or 64-CD capacity. And, pictured here, Tree Dimensions 552-CD capacity rack (\$179). Also available, Tree Dimensions solid oak CD rack, 250-CD capacity (\$89.95).

From Radio Doctors, GO RD

E. Jim Dunlop GCB-95 original crybaby.

Crybaby pedal features the unique wah-wah style introduced by Jimi Hendrix, which forever changed the boundaries of the bluesrock sound. Free 36-page print catalog, too, filled with brand-name music products, including guitars, amplifiers, tuners and more-all at low discount prices.

From Discount Music Supply. GO DMS \$59.50.

F. Alaskan Eskimo mask.

Alaska General Store, formerly The Ivory Cache, features Anaktuvak Pass Eskimo mask made from caribou hide with gray wolf parka ruff.

From Alaska General Store. GO AK \$95.

Find It Fast

Type 99 after any Mall merchant's GO command (i.e., GO CE99), and zip to a list of the merchant's featured products.



A. Breakfast feast and tree lease.

A slide-top wood box stuffed with a pound of savory cob-smoked Canadian-style bacon, one-half pint of pure maple syrup and a 2-pound sack of stone-ground buttermilk and honey pancake mix—topped off with a Rent Mother Nature® Maple Tree Lease that guarantees a supply of at least 50 ounces of fresh maple syrup from the Spring 1991 crop. Price includes shipping.

From Rent Mother Nature. GO RM **\$74.95.**

B. Texas roundup.

A gift basket from deep in the heart of Texas has everything but a yellow rose! Nacho chips, Texas popcorn, jalapeno jelly, fajita seasoning, hot-and-spicy pecans, bean dip, Zick's Buffalo sausage sticks, pralines and more fill a genuine cowboy hat with a blazing red bandana. Texas orders include Lone Star beer. Out-of-state, Coke.

From Simon David. GO SIM \$42.99. \$44.99 with beer.

C. Crabtree & Evelyn Cookbook.

A book of light meals and small feasts, featuring 200 recipes. Illustrated throughout with rich, detailed artwork and more than 30 full-color photographs. 256 pages.

From Crabtree & Evelyn. GO CR \$29.95.

D. The New England Sampler's Sampler.

Includes 8 ounces each of pure cider jelly, zesty maple mustard, spiced apple butter, pure Vermont maple butter, Vermont maple syrup, and hickory- and maple-smoked cheese, along with 24 ounces of old-fashioned pancake mix and applesauce with maple syrup. All prepared and packed with New England pride and perfection by Cold Hollow Cider Mill. Price includes shipping. From Some Things Special Unique Boutique. GO SP \$45.45.

E. Vidalia onions.

The soil and climate of Georgia's Vidalia region yields the world's sweetest onions. 10-pound carton. Price includes shipping. Basket not included.

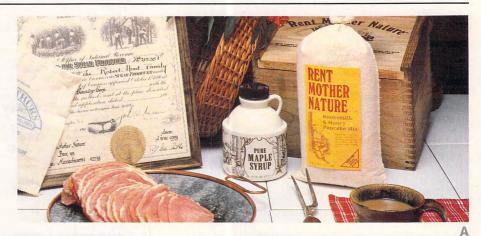
From Florida Fruit Shippers. GO FFS **\$17.95.**

Kona coffees and biscotti cookies.

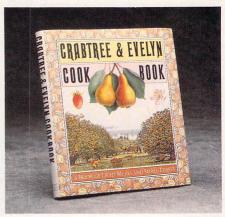
Grown on the slopes of an active volcano on the island of Hawaii, Kona is the only coffee grown in the United States. Available coffees include Kona Blend (\$8.95 per pound), Kona Macadamia Nut (\$9.45 per pound), Kona Emerald Cream (\$10.50 per pound) and Kona Fancy AA (\$13.50 per pound).

Also, biscotti dipping cookies. Perfect combinations with coffee, the cookies come from La Tempesta Bakery Confections, the original biscotti located in the heart of San Francisco (\$6.99 per 8-ounce bag).

From Coffee Anyone ??? GO COF











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The Electronic Mall Directory is designed to assist you with information about each of our merchants. All entries contain three lines as follows:

Merchant Name [GO Command]

Description of products/services Billing options Countries served

An example entry would look like this:

ABC NOVELTY STORE [ABC] Books, knick-knacks, collectibles

VI/MC/AM/CSH US/CD/JP/OT

You may visit the ABC NOVELTY STORE by using the quick reference word (GO ABC) at any CompuServe Information Service! prompt

Billing options codes indicate the methods of payment the merchant accepts as follows:

VI - VISA MC - MasterCard AM - American Express DI - Diners Club DIS - Discover Card

SC - Merchant's own store card COD - COD CSH - Cash, check, money order DB - Direct bill

NA - No billing applies (Advertiser only)

Country codes indicate the countries the merchant is able to ship to as follows:

US - United States CD - Canada

JP - Japan

OT - Other foreign countries

Catalog options for merchants offering catalogs are indicated by the following codes

 Offers free print catalog. * Denotes electronic order form for use with print catalog

 Credits cost of print catalog toward purchase

Denotes new merchant.

AIR FRANCE [AF] Information on tours, sights and

scenes. VI/MC US/CD

ALAMO RENT A CAR [AL] Information on rates, benefits,

locations. NA US/OT ALASKA GENERAL STORE [AK] **

Alaskan jewelry, ivory, gold, gifts. VI/MC/AM/DIS US/CD/JP/OT

ARTWEAR/OUTWEST [AO] **

Hand-designed shirts and jewelry. VI/MC/AM US/CD/JP/OT AT&T HOME-OFFICE RESOURCES

ONLINE [ATT] Technology that brings success

NA US/CD/JP/OT

AT&T TOLL-FREE 800 DIRECTORY [ATT] Thousands of toll-free numbers

always **free** of connect- time fees. VI/MC US

AUSTAD'S GOLF SHOP [AU] ** Golfing accessories, apparel, gifts. VI/MC/AM/DIS US

AUTOQUOT-R [AQ]
Vehicle price quotation service.
VI/MC/AM US

BRADY BOOKS [BB] PC books, utilities, software.

BROOKS BROTHERS [BR] **
Fine men's and ladies' apparel and

VI/MC/AM/DI/SC US/CD/JP/OT

BUICK MAGAZINE [BU] Free car information, customer service

BUSINESS WEEK [BW] Subscription packages and information.

VI/MC/AM/DB US/CD/JP/OT

CD CLUB [CD] * Compact disk ordering club. DB US

CD-ROM STORE, THE [RS] CD-ROM drives and accessories VI/MC US/CD/JP/OT

CDA COMPUTER SALES

Hardware, printers and accessories. VI/MC/AM/DIS/CSH US/CD/JP/OT

CHECKFREE CORP. [CF] Electronic banking and bill payment service. VI/MC/AM US

CHEF'S CATALOG, THE [CC] **
Gourmet cookware and kitchen accessories.

VI/MC/AM/DIS US

CIGNA INSURANCE [CI] Free personalized auto insurance quotes NA US

CLASSICAL MUSIC CLUB [CM] * Classical music ordering club. DB US

COFFEE ANYONE ???™ [COF] Original computer coffeehouse, gifts. VI/MC US/CD/JP/OT

COMPUSERVE STORE [ORDER] Merchandise, literature and software

COMPUTER EXPRESS [CE] * PC software, hardware, accessories VI/MC US/CD/JP/OT

COMPUTER SHOPPER [CS] Computer product bargains and

information magazine VI/MC/DB US/CD

COMPUTER SPORTS WORLD [CSW]

Sports information database service.
VI/MC/AM/DI/COD US/CD/OT

CONTACT LENS SUPPLY [CL]
Fast delivery of replacement lenses and more. VI/MC/CSH US

CORNER VIDEO [CV] Videos, laser disks and accessories.

COURT PHARMACY [RX] Full-service pharmacy and gift shop. VI/MC/AM/DI/DIS/COD US/CD/JP/OT

CRABTREE & EVELYN [CR] * Beauty products, sweets, gift packs. VI/MC/AM US/CD

CREATE-A-BOOK [CK]
Fun books that make your child a star.

DIRECT MICRO [DM] *

Discount computer disks and supplies.
VI/MC/COD US/CD/JP/OT

DISCOUNT MUSIC SUPPLY

Guitar effects and accessories. VI/MC/COD US/CD/JP/OT

DOW JONES & CO. [DJ]

Business and financial periodicals.
VI/MC/AM US/CD

DREYFUS CORP. [DR] Mutual funds and investment information.

EDUCATIONAL ADVISORY SERVICES [EA]

Financial aid search service VI/MC US

EXECUTIVE STAMPER [EX] ** Rubber stamps, engraved gifts. VI/MC/AM/DI/DIS US/CD/JP/OT

FLORIDA FRUIT SHIPPERS

[FFS] Premium fruit and gift shippers.
VI/MC/AM US/CD/JP/OT

FLOWER STOP [FS] Flower and gift delivery VI/MC/AM/DI/DIS US livery service.

FORD MOTOR CO. [FORD] Car and truck information, dealer locator. VI/MC US/CD

FRANCE INFO USA [FI]
A kiosk of information about France VI/MC/AM/COD/DB US/CD/JP/OT

GIMMEE JIMMY'S COOKIES [GIM] Gourmet cookies, custom orders VI/MC/AM/DIS US

GODIVA CHOCOLATIER [GC] ■ * Gourmet chocolate and gifts. VI/MC/AM US

A GUIDE TO INCORPORATING

Nationwide incorporating service. NA US

H&R BLOCK [HRB] The income tax people.

HAMMACHER SCHLEMMER
[HS] *
Gifts, unique and unusual products.
VI/MC/AM/DI US/CD/JP/OT
HEATHKIT [HTH] *
Public the unique to the state.

Build-it-yourself electronic kits, etc. VI/MC/AM/SC US/CD

HELEN HUTCHLEYS LA
DOLCERIA [HH] * * †
Chocolate, nuts and candy.
VI/MC/AM US

INSURANCE INFORMATION INC. [II]

Home, term life and auto insurance information. VI/MC/AM US

JCPENNEY [JCP] • * Apparel, furnishings, electronics. VI/MC/AM/DI/DIS/SC US

LASER'S EDGE, THE [LE]
Your one-stop laser video store
VI/MC/AM/DIS US/CD/JP/OT

LOBSTER EXPRESS [LOB]

Seafood gift pack specialist CSH US/CD

MACFRIENDS [MF] * † Macintosh hardware and products.

New! GO MF for details. VI/MC/AM/DIS/COD MACUSER [MC]

Save 58 percent and receive free gift. VI/MC/DB US/CD

MACWAREHOUSE [MW] * Macintosh hardware, software and VI/MC/COD US/CD/JP/OT

MARYMAC INDUSTRIES [MM] Official Radio Shack dealer. VI/MC/AM/DIS/CSH US/CD/JP

MAX ULE DISCOUNT BROKERAGE [TKR]
Brokerage and financial information retrieval

CSH US/CD/JP/OT MCGRAW-HILL BOOK CO. [MH] ■ * Business, finance and computer

books. VI/MC US/CD/JP MENTOR TECHNOLOGIES [MN]

Authorized CompuServe training VI/MC US MICROWAREHOUSE [MCW] **

Hardware, software and equipment for PCs. VI/MC/COD US/CD/JP/OT

MILTROBE ELECTRONICS
[MI] * Consumer electronics, tools, gifts VI/MC/CSH US/CD

MONEY'S FINANCIAL MARKET [MFM] Personal finance tools from *Money*. VI/MC/AM US

MUSEUM OF FINE ARTS,
BOSTON [FA] **
Gifts and classic reproductions. VI/MC/AM US/CD/JP/OT

MUSIC ALLEY ONLINE [MAO] Mixers, synthesizers, keyboards, etc. VI/MC/COD US/CD

NEWSNET [NN]
Specialized business news database service. US/CD

NISSAN MOTOR CORP. IN THE USA [NI]

Nissan cars, trucks, accessories.

OCEAN ISLE SOFTWARE [OI]

Neurobics: PC adventures for your VI/MC US

ODONYX SCIENTIFIC [DU] Pharmaceutical, medical and lab supply.
VI/MC/AM/DIS US/CD/JP/OT

OFFICIAL AIRLINE GUIDES [OA] Information on online services; air and hotel guides.

ONLINE STORE [OS] Computer accessories, hardware. VI/MC/AM/DI US

PAUL FREDRICK

SHIRTS CO. [PFS]

Classic shirts from the tailor to you.

PC/COMPUTING [PCC] Save 58 percent and receive free gift. VI/MC/DB US/CD PC MAGAZINE [PM] Save 54 percent and receive free gift. VI/MC/DB US/CD

PENGUIN BOOKS [PB] * * Books, new titles, catalogs. VI/MC/AM/DIS US/CD/JP/OT

PENNY WISE OFFICE SUPPLIES

[PW] Full range of brand-name office products.

PEPPERIDGE FARM [PF] ** Gourmet cookies, candies, gifts, etc. VI/MC/AM/DI/DIS US

PREVENTION SYSTEMS [PS] ** Affordable, healthful diet supplements VI/MC/AM/CSH US/CD

PRICE MOTOR CARS [PRC] Auto accessories and gifts o distinction.
VI/MC/AM/DIS US/CD

PROGRAMS PLUS [PP] Apple/Macintosh software and accessories. VI/MC US/CD/JP/OT

PUBLISHERS CLEARING HOUSE [PUB]
Magazine subscriptions at low prices.

PUSH PEDAL PULL FITNESS [PPP] * *
Professional home exercise

VI/MC/AM/DIS

RADIO DOCTORS [RD] ■ * Music on CD and cassette. VI/MC/AM/DIS US

RECORD AND TAPE CLUB [RT] * Record and tape ordering club

RENT MOTHER NATURE [RM] ■ * Nature's gifts, leasing programs, etc. VI/MC/AM US/OT

RIN ROBYN POOL 'N PATIO [RR] Pool and patio, outdoor items VI/MC/AM US/CD/JP/OT

SAFEWARE COMPUTER INSURANCE [SAF]
High-tech equipment insurance, VI/MC US/CD/JP/OT

SHARON LUGGAGE AND GIFTS [SL] **
Luggage, fine leather goods and unique gifts. VI/MC/AM US/CD/JP/OT

SHOPPERS ADVANTAGE CLUB [SAC] Discount shopping club. VI/MC US

SIMON DAVID [SIM] **
Gourmet foods, meats from Texas.
VI/MC/AM/DIS US/CD/JP/OT

SMALL COMPUTER BOOK CLUB

Quality computer books DB US/CD

SOFTWARE DISCOUNTERS OF AMERICA [SDA]
Software for a wide range of

computers. VI/MC US/CD/JP/OT

SOME THINGS SPECIAL UNIQUE
BOUTIQUE [SP] *
Unique gifts and computing accessories.
VI/MC/AM/DIS US/CD

SPIEGEL [SGL]

Fashion, gifts and electronics. VI/MC/AM/SC US

SPORT SOURCE, THE [SS] * * Sporting goods, apparel, accessories. VI/MC US/CD/JP/OT

STATIONERY CENTER, THE [SC] *
Office supplies, furniture, etc.
VI/MC/AM/DIS/COD US/CD/JP

TALL TAILS [TT]
Supplies and gifts for your pet.
VI/MC/COD US/CD/JP/OT

TIME-LIFE BOOKS, MUSIC AND VIDEOS [TL] Books, music and video series. VI/MC/AM US

TRW CREDENTIALS [CRE] Know the details of your credit status. VI/MC/AM US

TSR GAMES SHOPPE [TSR] **
Adventure, fantasy games and accessories. VI/MC US/CD/JP/OT

USA TODAY [UT]
Subscribe to the nation's newspaper.
VI/MC/AM US

USED CAR PRICE GUIDE [UC] Wholesale/retail prices from 1978. VI/MC US/CD

WALDEN COMPUTER BOOKS [WB] Computer books and accessories VI/MC/AM US/CD/JP/OT

WALTER KNOLL FLORIST [WK] Plants, flowers and gifts via FTD.
VI/MC/AM/DI/DIS/DB US/CD/JP/OT

WILLIAMS & EEDEN GARDEN
CENTER [WE] **
Flowers, plants and garden tools.
VI/MC US/CD

WINDHAM HILL [WH] * Jazz, New Age, children's recordings. VI/MC/AM US/CD/JP/OT

YES! BOOKS AND VIDEOS [YB] ** A unique collection of books and videos. VI/MC/AM US/CD/JP/OT

APPAREL/ACCESSORIES

Artwear/Outwest ■ * AO Austad's Golf Shop ** AU Brooks Brothers BR JCPenney • * JCP PFS Paul Fredrick Shirts Co. Sharon Luggage and Gifts **
Spiegel ** SL SGL The Sport Source ■ * SS

ARTS/MUSIC/VIDEO CD CD Club * Classical Music Club CM CV Corner Video Discount Music Supply ■ * DMS LE The Laser's Edge MAO Music Alley Online Museum of Fine Arts, Boston FA Radio Doctors ■ * RD Record and Tape Club * RT TL Time-Life Books, Music and Videos Windham Hill ■ * WH YES! Books and Videos ■ * YB

AUTO

MFM

PCC

AL Alamo Rent A Car AQ Autoquot-R Buick Magazine BU CIGNA Insurance Ford Motor Co. CI FORD NI Nissan Motor Corp. in the

PRC Price Motor Cars UC Used Car Price Guide

BOOKS/PERIODICALS

Brady Books Business Week BW Computer Shopper CK Create-A-Book Dow Jones & Co. MH McGraw-Hill Book Co. ■ * MC MacUser

PC/Computing

Money's Financial Market

PM PC Magazine Penguin Books ■ * PB PUB Publishers Clearing House Small Computer Book Club TL Time-Life Books, Music and UT USA Today WB Walden Computer Books

BUSINESS/FINANCE

AT&T Home-Office Resources Online AT&T Toll-Free 800 Directory ATT BW Business Week CF CheckFree Corp. DR Dreyfus Corp. Dow Jones & Co. DJ A Guide to Incorporating HRB H&R Block Insurance Information Max Ule Discount Brokerage TKR Money's Financial Market MFM NewsNet NN **TRW Credentials** CRE S/MEMBERSHIPS CLUB

Classical Music Club * CD Club * CM CD BT Record and Tape Club * SAC

Shoppers Advantage Club * BK Small Computer Book Club TL Time-Life Books and Videos

COMPUTING CDA Computer Sales ■ *

CDA

The CD-ROM Store RS ORD CompuServe Store Computer Express * Computer Shopper
Direct Micro *
Heathkit * CS DM HTH MacFriends ■ * ME MC MacUser MacWarehouse ■ * MW Marymac Industries
MicroWarehouse ** MM MCW OI Ocean Isle Software os Online Store

PCC PC/Computing PM PC Magazine PP Programs Plus SAF Safeware Computer Insurance SDA Software Discounters of America SP

Some Things Special Unique Boutique Walden Computer Books * WB

GIFTS/FLOWERS/GOURMET FOODS

Alaska General Store ** AK AT&T Toll-Free 800 Directory ATT The Chef's Catalog
Coffee Anyone™ ??? CC COF Crabtree & Evelyn *
Florida Fruit Shippers Flower Stop Gimme Jimmy's Cookies
Godiva Chocolatier * CR **FFS** FS GIM GC Hammacher Schlemmer ■ * HS HH Helen Hutchleys La Dolceria * † Lobster Express LOP Museum of Fine Arts, Boston * FA Pepperidge Farm ■ * Rent Mother Nature ■ * RM Sharon Luggage and Gifts * SL

Simon David ■ * SIM Some Things Special Unique Boutique SP WK Walter Knoll Florist Williams & Eeden Garden Center * WE

HEALTH/BEAUTY

Contact Lens Supply Court Pharmacy RX Crabtree & Evelyn ■ * CR DU Odonyx Scientific Prevention Systems ** PS Push Pedal Pull Fitness PPP

HOBBIES/TOYS/PETS

TT Tall Tails

Merchants by Department

TSR Games Shoppe ■ * Williams & Eeden Garden Center * WE

INFORMATION/SERVICES

AT&T Home-Office ATT Resources Online AT&T Toll-Free 800 Directory ATT CIGNA Insurance CI ORD CompuServe Store Computer Sports World CSW EA Educational Advisory Services MN Mentor Technologies Safeware Computer Insurance SAF CRE **TRW Credentials**

MERCHANDISE/ELECTRONICS

Brooks Brothers ■ * BR The Chef's Catalog ■ * CC ORD CompuServe Store Court Pharmacy RX Hammacher Schlemmer **
Heathkit ** HS HTH JCPenney • * JCP Miltrobe Électronics • * MI Shoppers Advantage Club Spiegel * SAC SGL

OFFICE SUPPLIES

Direct Micro * DM Executive Stamper **
Penny Wise Office Supplies EX PW The Stationery Center SC SPORTS/LEISURE

Austad's Golf Shop ** AU Computer Sports World Hammacher Schlemmer CSW HS Push Pedal Pull Fitness ■ * PPP Rin Robyn Pool 'N Patio The Sport Source ** RR SS

TRAVEL/VACATIONS

Air France AF AT&T Toll-Free 800 Directory ATT France Info USA FI Official Airline Guides OA Sharon Luggage and Gifts SL

Free shopping.

 Remember ... Connect time is always free at AT&T Toll-Free 800 Directory (GO ATT) and Buick Magazine (GO BU).

FREE-SHOPPING WEEKENDS.

Shop **connect-free** from 12:01 a.m. ET on Saturday through 11:59 p.m. ET on Sunday at the following Mall stores:

July 7 and 8.

Brooks Brothers GO BR
Contact Lens Supply GO CL
Direct Micro GO DM
The Laser's Edge GO LE
MacFRIENDS GO MF
MacWarehouse GO MW
Publishers Clearing House GO PUB
Time-Life Books, Music and Videos GO TL
Walden Computer Books GO WB

July 14 and 15.

CIGNA Insurance GO CI
Coffee Anyone??? GO COF
Florida Fruit Shippers GO FFS
MacFRIENDS GO MF
Time-Life Books, Music and Videos GO TL
Walden Computer Books GO WB

July 21 and 22.

Austad's Golf Shop GO AU The Laser's Edge GO LE TSR Games Shoppe GO TSR Walden Computer Books GO WB

July 24, 25 and 26.

 Celebrate Christmas in July. Shop the entire Mall free of connect-time fees for three days.

July 28 and 29.

Alaska General Store GO AK CIGNA Insurance GO CI TSR Games Shoppe GO TSR Walden Computer Books GO WB

August 4 and 5.

Brooks Brothers GO BR Ford Motor Co. GO FORD Publishers Clearing House GO PUB Time-Life Books, Music and Videos GO TL Walden Computer Books GO WB

August 5

Ford Motor Co is sponsoring a free Convention Center conference, featuring the Capri on Sunday, Aug. 5, from 7 p.m. to 9 p.m. EDT.

August 11 and 12.

CheckFree Corp. GO CF CIGNA Insurance GO CI Heathkit GO HTH MacFRIENDS GO MF Walden Computer Books GO WB

Special shopping offer.

Explore MacFRIENDS' new store in The Electronic Mall free of connect-time fees during its free-shopping weeks, July 7 to 15 and August 11 to 19. GO MF

COMING NEXT MONTH ...

Sears grand opening and high-tech toys and back-to-school specials.

MacWarehouse sponsors Concorde to London Contest.

Win a four-day, all-expenses-paid trip by Concorde to the *MacUser* United Kingdom Show from Nov. 7 to 10, 1990! Grand prize includes one round-trip ticket to London, including New York to London by Concorde, hotel accommodations for the duration of the *MacUser* United Kingdom Show and \$500 for miscellaneous expenses. No purchase necessary. Complete contest rules online.

And remember that nobody beats
MacWarehouse for great prices, free technical support and \$3 Midnight Express Service.
Online, request a free print catalog packed with more than 1,200 Macintosh products.
From MacWarehouse. GO MW

Online triathlon at Push Pedal Pull Fitness.

In celebration of its first anniversary online, Push Pedal Pull Fitness is holding an online triathlon! Row, bike and run your way through its database and you could win one of three great prizes: a 2-pound Ultra Rope, a Physique Personal Fitness Journal or a Tunturi 2-pound ankle/wrist weight set. No purchase necessary. Complete rules and regulations online. Make a purchase of \$25 or more online and receive a free What Are You Looking For in a Workout video, too.

From Push Pedal Pull Fitness. GO PPP

Coffee Anyone ??? celebrates fifth anniversary online.

Enjoy three big days of savings. Take 10 percent off everything on July 13, 14 and 15. Come celebrate. GO COF

Toll-free sources for waste disposal and pollution-control services.

Consult the AT&T Toll-Free 800 Directory for hundreds of toll-free numbers for companies, organizations and services working to make the planet a better place. Select "Waste Disposal and Pollution Control" from the "Product/Service Category Search" menu for listings of recycling equipment and services, radioactive waste-disposal services, compactors, sources for water treatment and pollution control and more. Remember, connect time is always free at AT&T Toll-Free 800 Directory.

From AT&T Toll-Free 800 Directory. GO ATT

What the heck is "free connect"?

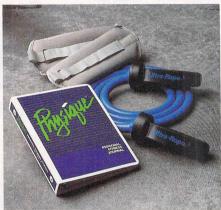
Whenever you read about a free-connect weekend in Go Mall, know you can browse through participating merchants' online stores for those two days without paying standard Compuserve connect rates. In other words, you pay nothing while you explore a Mall store that's currently offering free connect time.

An up-to-date list of **free-connect** week ends always can be found online in "Mall Headlines and Happenings." (Though connect-time charges are waived, applicable communications surcharges *remain in effect.*)

Who says you can't get something for nothing?



Win London trip on Concorde. GO MW



Compete in online triathlon. GO PPP



Celebrate anniversary savings. GO COF

The price is right (most of the time, anyway).

All prices mentioned in *Go Mall* are the most accurate prices available to our editorial staff at the time of publication. However, because The Electronic Mall is such a dynamic, changing environment, occasionally a printed price will be out-of-date by the time you look up the featured product online.

Here's a good rule of thumb: Before ordering anything from The Mall that appears in *Go Mall*, make sure you check its online price. You can be sure that this price is the most current.

Shoppers Guide

If you're looking for the lowest air fares for your summer travel, try the

œ

ELECTRONIC EDITION® TRAVEL SERVICE

GO OAG



WIN LOTTO MILLIONS New DOS Release!

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Guidelines to Requesting Information Through OLI

Online Inquiry

Online Inquiry is *CompuServe Magazine*'s electronic version of the traditional reader inquiry card. To request additional information about products or services described in *CompuServe Magazine*, simply access CompuServe and type GO OLI at any prompt.

CompuServe Page OLI-1 COMPUSERVE MAGAZINE ADVERTISERS ONLINE INQUIRY (OLI)

- 1. OLI Instructions
- 2. CompuServe Magazine Display Ads
- 3. Print Edition Reviews
- 4. Shopper's Guide Mini-Ads

Display Ads

GO OLI-160. Inquiries to this section will be followed by a brief description of the *CompuServe Magazine* ad. To request additional printed information, simply enter your name and address at the prompts. OLI will add your User ID number and electronically forward your request to the appropriate advertiser(s). The names, addresses and User ID numbers will also be forwarded via US Mail at the end of each month.

CompuServe COMPUSERVE ADVERTISERS/OLI

Page OLI-160 MAGAZINE

- 1. May 1990 Advertisers
- 2. Apr. 1990 Advertisers
- 3. Mar. 1990 Advertisers

Editorial Articles/Reviews

At the end of each electronic version product review, you'll be asked if you wish to request further information through the Online Inquiry system. A "yes" response will let the system prompt you for your name, address and other information so that your request can be forwarded to the appropriate company. If you respond "no," the system will return you to the previous menu.

To request information about products reviewed in the print edition, GO OLI-280 and select the appropriate listing, such as May Hardware Reviews. At the next menu, select the product you're interested in. If you answer "yes" at the question prompt, the OLI system will prompt you for the necessary information.

Requests to these sections will be stored and forwarded by traditional mail once each month.

CompuServe Page OLI-280 REVIEW LISTINGS/PRINT EDITION

- 1. May Hardware Listings
- 2. May Software Listings
- 3. May New Product Listings

Shopper's Guide

GO OLI-70 to get information about CompuServe Magazine's mini-ad program.

To request information from Shopper's Guide advertisers, follow the instructions outlined in each ad.

CompuServe SHOPPER'S GUIDE Page OLI-70

- 1. About Shopper's Guide
- 2. Rates and Information

*Note: Additional requests during the same session will not require you to re-enter your name and address.

UPDATE



Zmac by MacUser and MacWEEK

Zmac, a new Ziff-Davis service, offers a searchable Buyer's Guide Database, featuring product reviews and information on thousands of Macintosh products. Talk with the editors of MacUser and MacWEEK in the Zmac discussion forums. Also read excerpts of news stories before they are printed in MacWEEK News Beat, and download utility programs to enhance Macintosh productivity by selecting "MacUser Power Tools." **GO ZMAC**



Whiz Quiz Adds Sports Questions

Grolier Whiz Quiz has added more than 100 sports questions. Trivia fans can test their knowledge of boxing, tennis, football, sailing and more. Whiz Quiz also has questions on history, art, the Bible, current events and other topics. GO WHIZ

The \$5 scan charge for IQuest's Tradename and Product Line SmartSCANs is waived during July. The consumer can learn about a product before making a purchase with Product Line SmartSCAN. Tradename SmartSCAN helps businesspeople determine if others are using a product or service name. Other IQuest charges, including charges for searches performed from the SmartSCAN results menu, remain in effect. GO IQUEST

Win prizes in The Electronic Mall contests during July. MacWarehouse (GO MW) and MicroWarehouse (GO MCW) shoppers can win expenses-paid trips by the Concorde to London for the MacUser United Kingdom Show and Computer Shopper Show, respectively. Push Pedal Pull Fitness (GO PPP) is featuring an online triathlon and Publishers Clearing House (GO PUB) subscribers can order an official entry form for the current \$10 million sweepstakes. In addition, shop free of connect-time fees in every Mall store on July 24, 25 and 26. GO MALL

In July, first-time users of Magazine Database Plus will receive a rebate of up to \$5 on any transaction or connect-time surcharges, incurred during their first session. Use Magazine Database Plus to find articles on virtually any topic. Retrieve and display the full text of articles from more than 90 general-interest magazines, published from 1986 to the present. The rebate will be applied as a usage credit to CompuServe charges about one week after the first session. GO MDP

The Microsoft Windows Forum supports the Microsoft Windows graphics interface. Discussions on all versions of Windows, including the recently released Version 3.0, third-party drivers, press releases and programming, are featured. GO MSWIN

Submit your Atari Portfolio Programming Contest entry before Sunday, July 15. Access the Atari Portfolio Forum for more information about contest categories, prizes and rules. GO APORTFOLIO

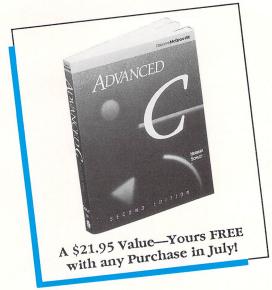
The US Department of State posts worldwide travel advisories in "Recently Issued Advisories." The advisories inform travelers of conditions abroad, including potential physical dangers, unexpected arrests or detentions and other conditions. GO STATE

Make July your month to schmooze and join the \$25 CB Club. Use the CB Simulator to talk with people around the world at any hour, for only \$4 per hour during July only. Communications surcharges apply. GO CBCLUB

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